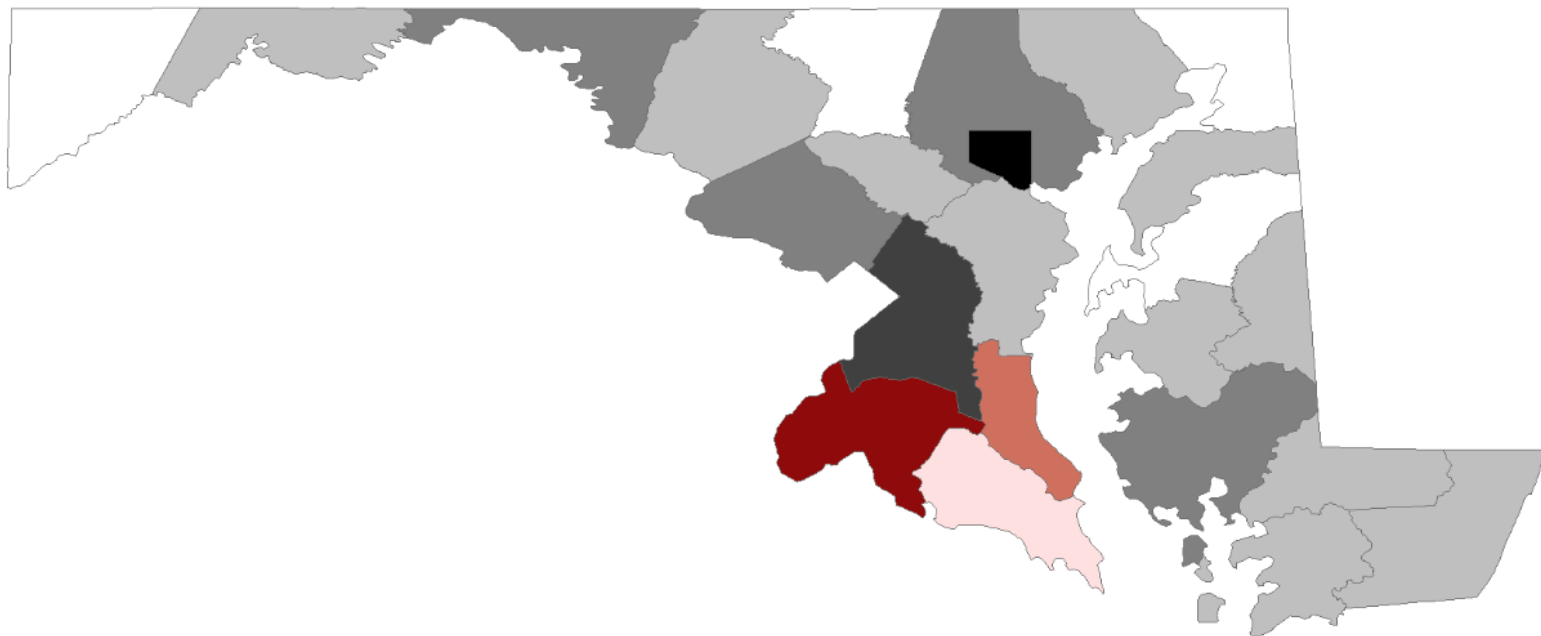


# 2015



## Southern Region HIV Annual Epidemiological Profile

Data reported through June 30, 2016

Center for HIV Surveillance, Epidemiology and Evaluation  
Infectious Disease Epidemiology and Outbreak Response Bureau  
Prevention and Health Promotion Administration  
Maryland Department of Health and Mental Hygiene  
<http://phpa.dhmmh.maryland.gov/OIDEOR/CHSE>  
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# Section I – Background Information

## HIV/AIDS Reporting Requirements

The Maryland HIV/AIDS Reporting Act of 2007 went into effect on April 24, 2007. The law expanded HIV/AIDS reporting and required that HIV cases be reported by name. The following highlights the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in COMAR 10.18.02.

- Physicians are required to report patients in their care with diagnoses of HIV or AIDS immediately to the Local Health Department where the physician's office is located by mailing DHMH Form 1140. Reports are also accepted by phone.
- Physicians are required to report infants born to HIV positive mothers within 48 hours to the State Health Department by mailing DHMH Form 1140. Reports are also accepted by phone.
- Clinical and infection control practitioners in hospitals, nursing homes, hospice facilities, medical clinics in correctional facilities, inpatient psychiatric facilities, and inpatient drug rehabilitation facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS within 48 hours to the Local Health Department where the institution is located by mailing DHMH Form 1140. Reports are also accepted by phone. Facilities with large volumes are encouraged to contact the State Health Department to establish electronic reporting.
- Laboratory Chiefs are required to report patients with laboratory results indicating HIV infection (e.g., positive confirmatory HIV diagnostic tests, all CD4 immunological tests, all HIV viral load tests, and all HIV genotype and phenotype tests) within 48 hours to the Local Health Department where the laboratory is located, or if out of state to the Maryland State Health Department, by mailing DHMH Form 4492. Laboratories are encouraged to contact the State Health Department to establish electronic reporting.

Reporting forms and instructions are available on our website:

<http://phpa.dhmh.maryland.gov/OIDEOR/CHSE/Pages/reporting-material.aspx>

## For Assistance with HIV/AIDS Reporting

For assistance with reporting, including establishment of routine, electronic, or other alternate methods of reporting to the Health Department, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

## Limitations in the HIV/AIDS Data

This epidemiological profile only contains data for HIV and AIDS cases that have been diagnosed by a health care provider, were reported to the health department by name, and were residents of Maryland at the time of diagnosis or are current residents of Maryland as of 6/30/2016. Nationally, it has been estimated that 13.0% of people living with HIV infection are undiagnosed. In Maryland, it has been estimated that 16.3% of people living with HIV infection are undiagnosed. In addition, despite a massive effort during which over 17,000 HIV cases were reported after the Maryland HIV reporting law changed on April 24, 2007, not all diagnosed HIV cases previously reported by Maryland's code-based identifier were located and re-reported by name. Many of the re-reported HIV cases were identified by a recent diagnosis and not by their earliest diagnosis, resulting in an under-reporting of HIV diagnoses before 2001 and an over-reporting of HIV diagnoses from 2001 to 2008. It is important to note that surveillance is an ongoing systematic collection, analysis, interpretation, and dissemination of laboratory data. Furthermore, laboratory data are only available for cases receiving medical care, usually only at facilities in Maryland, and only includes test results that have been reported to the health department. Linkage to care data is based solely on laboratory data reported to the health department. Caution should be exercised in using the number of living HIV cases without AIDS and in interpreting trends in the number of reported HIV diagnoses.

In addition to providing estimates of prevalent cases by residence at HIV diagnosis, this epidemiological profile includes estimates for HIV cases whose current residence as of 6/30/2016 was in Maryland. Current residence data are restricted to cases for which there is a case report form or laboratory test reported between 1/1/2009 and 6/30/2016. Restricting

address data to recent years presents the most accurate data available and helps to account for cases that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes cases that may be residents of Maryland but have fallen out of care during the most recent seven years. Current residence utilizes addresses as recent as 2016 but uses laboratory data from 2015 to allow for laboratory reporting.

## Stages of a Case of HIV/AIDS

Untreated HIV disease progresses from HIV infection to AIDS to death. These are biological events that occur whether or not a person receives any medical care. For example, a person can be HIV infected but never have an HIV test and so they do not have an HIV diagnosis. A medical provider diagnoses that these biological events have occurred and records them as a medical event. The law requires medical providers to report these medical events to the Health Department, thereby creating a surveillance event.

| Time Point | Biological Event | Medical Event   | Surveillance Event |
|------------|------------------|-----------------|--------------------|
| 1          | HIV Infection    |                 |                    |
| 2          |                  | HIV Diagnosis   |                    |
| 3          |                  |                 | HIV Report         |
| 4          | AIDS Conditions  |                 |                    |
| 5          |                  | AIDS Diagnosis  |                    |
| 6          |                  |                 | AIDS Report        |
| 7          | Death            |                 |                    |
| 8          |                  | Death Diagnosis |                    |
| 9          |                  |                 | Death Report       |

A case of HIV/AIDS can only move through time in one direction, from HIV infection to death report [from time point 1 to time point 9], but may skip over individual stages. Events can occur simultaneously, but usually there is a time lag between them. The time lag between events can be measured in days, months, and years.

For example, the time between HIV infection [time point 1] and the test that diagnoses HIV [time point 2] may be several years, and it may then take several days for the laboratory and physician to report the diagnosis to the health department [time point 3]. In a second example, a person with diagnosed and reported HIV infection [time point 3] may die [time point 7] without developing AIDS, thereby skipping the three AIDS events (conditions, diagnosis, and report [time points 4, 5 and 6]). And in a third example, a person with undiagnosed HIV infection [time point 1] may become sick, enter the hospital, and die [time point 7] of what is later determined to be AIDS. In that situation, HIV diagnosis [time point 2], AIDS diagnosis [time point 5], and death diagnosis [time point 8] would all occur at the same time, and that would probably be many years after the initial HIV infection [time point 1].

## Changes in Case Terminology

The terminology for HIV and AIDS cases was changed from earlier epidemiological profiles to be more precise, with Reported Diagnoses replacing Incidence and Living Cases replacing Prevalence. Incidence is a measure of the number of new events (such as HIV infections) in a population during a period of time. Prevalence is a measure of the number of people living with a condition (such as HIV) in a population at a certain time. Prevalence includes both new and old diagnosed cases as well as undiagnosed infections. For HIV, Incidence and Prevalence cannot be directly measured and must be estimated using statistical methods. The HIV surveillance system is able to provide the actual number of diagnoses and deaths that are reported in the population.

For this epidemiological profile, the reports received through a certain time (six months after December 31<sup>st</sup> of the specified year) are used to generate the number of diagnoses during the prior years. This lag time allows for delays in reporting and time to complete investigations. Instead of the previous one-year lag, this epidemiological profile utilizes a six-month lag, and as a result, data on exposure category and deaths for the prior year are preliminary. For example, the Reported HIV Diagnoses for 2015 are the total of the reported HIV cases with or without an AIDS diagnosis, diagnosed with HIV during 01/01/2015-12/31/2015, as reported by name through 6/30/2016.



To calculate the number of Living Cases we count up all of the Reported Diagnoses from the beginning of the epidemic (all the new cases each year) and subtract all of the Reported Deaths. For example, the Total Living HIV Cases on 6/30/2016 are the total of the reported HIV Cases with or without an AIDS diagnosis and not reported to have died as of 12/31/2015 as reported by name through 6/30/2016.

## Laboratory Data

CD4+ T-lymphocyte tests are measures of a person's immune system function. An HIV infected adult is considered to have AIDS if they have less than 200 CD4 cells per microliter of blood. Viral load (VL) tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a very low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Treatment recommendations are that a person in HIV medical care should have their CD4 and VL levels measured regularly, at least once per year. We use the presence of these lab tests as an indicator that someone has been "linked to care" after diagnosis or is "in care."

## Sources of Data

Information on HIV and AIDS diagnoses, including residence at diagnosis, age, race/ethnicity, sex at birth, country of birth, vital status, HIV exposure category, and CD4 and HIV viral load test results are from the Maryland Department of Health and Mental Hygiene's Enhanced HIV/AIDS Reporting System (eHARS), June 30, 2016. The Southern Region consists of the following jurisdictions: Calvert, Charles and Saint Mary's.

Population data by sex, age, and race/ethnicity are from the July 1, 2015 U.S. Census Estimates and by country-of-birth from the 2014 American Community Survey (note the difference in total population due to different source). Due to estimation limitations, some population totals may not equal the sum of its components. When needed, age groups were divided by assuming uniform age distribution within the age group. Non-Hispanic multiple race and Non-Hispanic some other race from the Census were combined into one group.

Estimations of those undiagnosed are from Centers for Disease Control and Prevention's 2016 HIV Surveillance Supplemental Report published July 2016. The continuum of care is adapted from a 2011 article in Clinical Infectious Diseases in which a continuum of care "cascade" is used illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care.

## Tabulation of Column Totals

Figures in tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

## Data Suppression

In order to protect the confidentiality of reported HIV cases, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than 5 cases.
- All exposure/risk information if it is describing less than 5 cases, except in the case of "other" exposure.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

## HIV Exposure Categories

The Centers for Disease Control and Prevention (CDC) developed a hierarchy of exposure categories for surveillance purposes. Persons with more than one reported risk factor are classified in the exposure category listed first in the hierarchy and therefore counted only once. Men who have sex with men and report injection drug use constitutes a separate transmission category.

**MSM (Men who have Sex with Men):** Men who report a history of sexual contact with other men (homosexual contact) including men who report sexual contact with both men and women (bisexual contact).

**Injection Drug Use (IDU):** Men or women who report receiving an injection, either self-administered or given by another person, of a drug that was not prescribed by a physician.

**MSM/IDU:** Men who report a history of sexual contact with other men who also have engaged in injection drug use.

**Heterosexual Exposure (HET):** Men or women who report a history of sexual contact with a person of the opposite sex who is known to have an HIV infection or at high risk for an HIV infection. High risk groups include bisexual men, IDUs and recipients of blood, blood components, transplants of organ or tissue and artificial insemination.

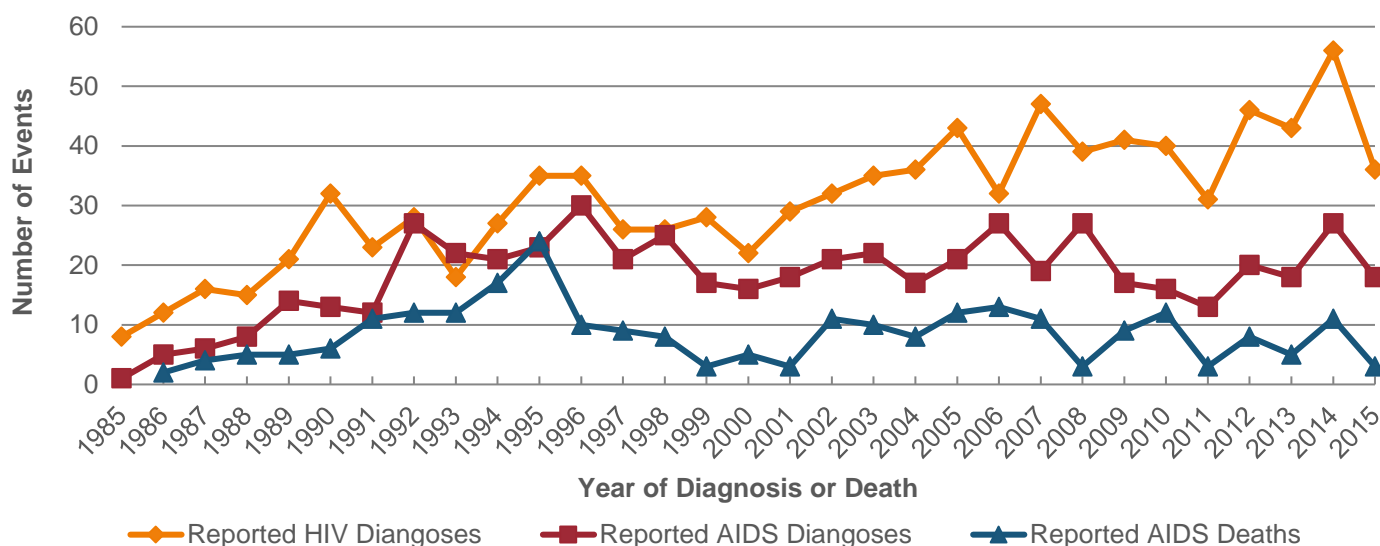
**Perinatal Exposure:** Any baby born to an HIV positive mother.



## Section II – Trends 1985-2015

**Figure 1 – Trends in Reported HIV and AIDS Diagnoses and Deaths, 1985-2015, Reported through 6/30/2016**

Reported HIV Cases with or without an AIDS Diagnosis (Reported HIV Diagnoses) by Year of HIV Diagnosis, Reported HIV Cases with an AIDS Diagnosis (Reported AIDS Diagnoses) by Year of AIDS Diagnosis, and Reported HIV Cases with an AIDS Diagnosis Reported to have Died of Any Cause (Reported AIDS Deaths) by Year of Death, from 1985 through 2015 as Reported through 6/30/2016



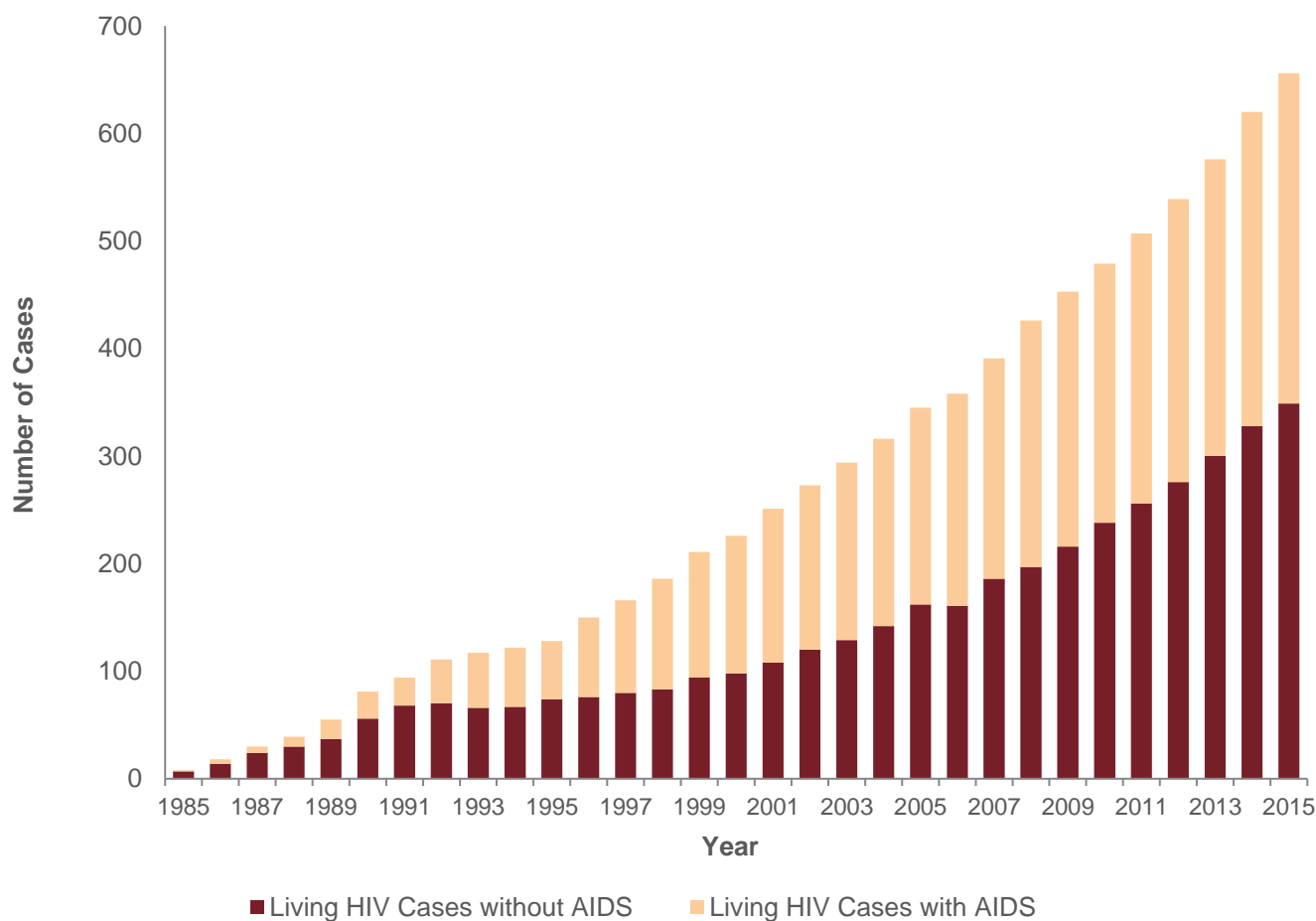
During the 2007-2008 transition to name-based reporting, many HIV cases were reported by a recent HIV diagnosis and not by their earliest HIV diagnosis, resulting in an artificial upward trend in HIV diagnoses during the period 2001-2008.

| YEAR OF DIAGNOSIS OR DEATH | REPORTED HIV DIAGNOSES | REPORTED AIDS DIAGNOSES | REPORTED AIDS DEATHS | YEAR OF DIAGNOSIS OR DEATH | REPORTED HIV DIAGNOSES | REPORTED AIDS DIAGNOSES | REPORTED AIDS DEATHS |
|----------------------------|------------------------|-------------------------|----------------------|----------------------------|------------------------|-------------------------|----------------------|
| <1985                      | 2                      | 1                       | 1                    | 2000                       | 22                     | 16                      | 5                    |
| 1985                       | 8                      | 1                       |                      | 2001                       | 29                     | 18                      | 3                    |
| 1986                       | 12                     | 5                       | 2                    | 2002                       | 32                     | 21                      | 11                   |
| 1987                       | 16                     | 6                       | 4                    | 2003                       | 35                     | 22                      | 10                   |
| 1988                       | 15                     | 8                       | 5                    | 2004                       | 36                     | 17                      | 8                    |
| 1989                       | 21                     | 14                      | 5                    | 2005                       | 43                     | 21                      | 12                   |
| 1990                       | 32                     | 13                      | 6                    | 2006                       | 32                     | 27                      | 13                   |
| 1991                       | 23                     | 12                      | 11                   | 2007                       | 47                     | 19                      | 11                   |
| 1992                       | 28                     | 27                      | 12                   | 2008                       | 39                     | 27                      | 3                    |
| 1993                       | 18                     | 22                      | 12                   | 2009                       | 41                     | 17                      | 9                    |
| 1994                       | 27                     | 21                      | 17                   | 2010                       | 40                     | 16                      | 12                   |
| 1995                       | 35                     | 23                      | 24                   | 2011                       | 31                     | 13                      | 3                    |
| 1996                       | 35                     | 30                      | 10                   | 2012                       | 46                     | 20                      | 8                    |
| 1997                       | 26                     | 21                      | 9                    | 2013                       | 43                     | 18                      | 5                    |
| 1998                       | 26                     | 25                      | 8                    | 2014                       | 56                     | 27                      | 11*                  |
| 1999                       | 28                     | 17                      | 3                    | 2015                       | 36                     | 18                      | 3*                   |
|                            |                        |                         |                      | TOTAL                      | 960                    | 563                     | 256                  |

\*2014-2015 reported AIDS deaths are preliminary.

## Figure 2 – Trends in Living HIV Cases, 1985-2015, Reported through 6/30/2016

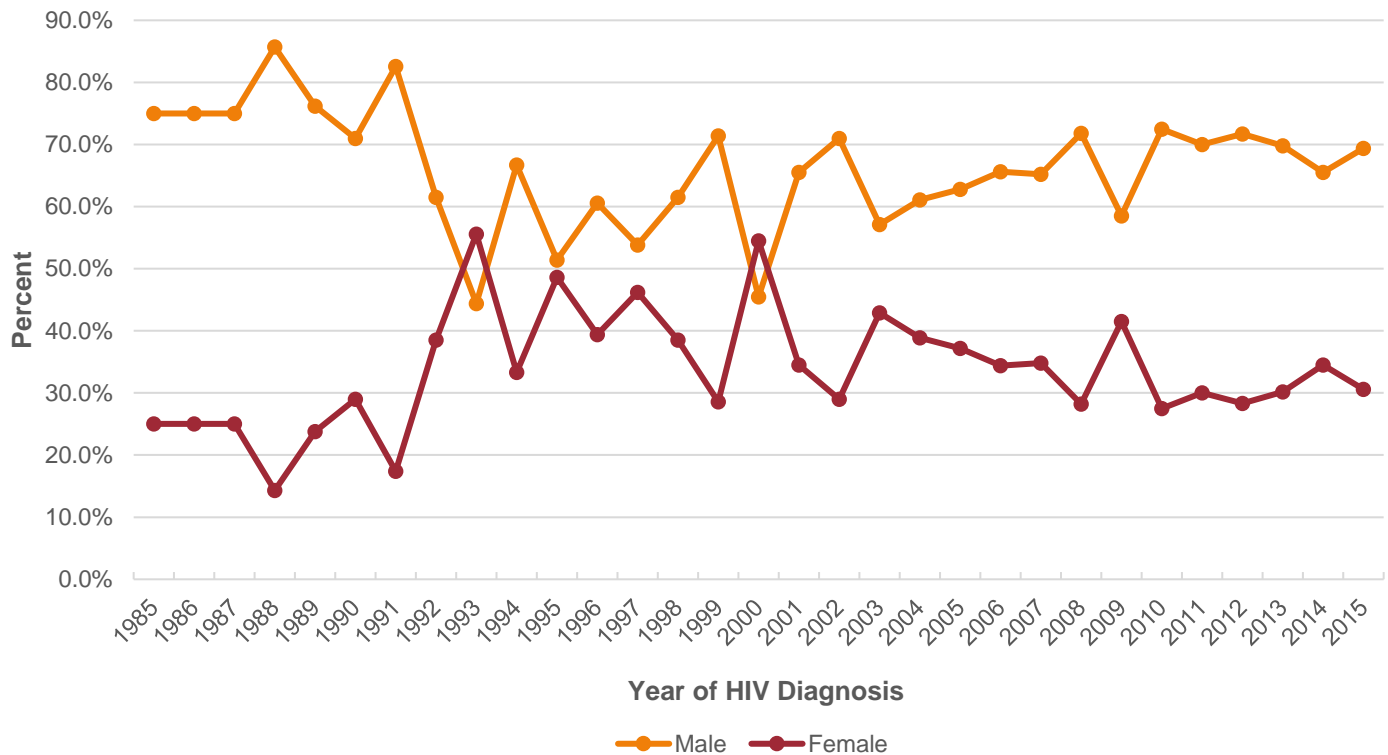
Reported HIV Cases with or without an AIDS Diagnosis and Not Reported to have Died as of December 31<sup>st</sup> of Each Year (Living HIV Cases without AIDS, Living HIV Cases with AIDS, and Total Living HIV Cases) from 1985 through 2015, as Reported through 6/30/2016



| YEAR | LIVING HIV CASES WITHOUT AIDS | LIVING HIV CASES WITH AIDS | TOTAL LIVING HIV CASES | YEAR | LIVING HIV CASES WITHOUT AIDS | LIVING HIV CASES WITH AIDS | TOTAL LIVING HIV CASES |
|------|-------------------------------|----------------------------|------------------------|------|-------------------------------|----------------------------|------------------------|
| 1985 | 7                             | 1                          | 8                      | 2000 | 98                            | 128                        | 226                    |
| 1986 | 14                            | 4                          | 18                     | 2001 | 108                           | 143                        | 251                    |
| 1987 | 24                            | 6                          | 30                     | 2002 | 120                           | 153                        | 273                    |
| 1988 | 30                            | 9                          | 39                     | 2003 | 129                           | 165                        | 294                    |
| 1989 | 37                            | 18                         | 55                     | 2004 | 142                           | 174                        | 316                    |
| 1990 | 56                            | 25                         | 81                     | 2005 | 162                           | 183                        | 345                    |
| 1991 | 68                            | 26                         | 94                     | 2006 | 161                           | 197                        | 358                    |
| 1992 | 70                            | 41                         | 111                    | 2007 | 186                           | 205                        | 391                    |
| 1993 | 66                            | 51                         | 117                    | 2008 | 197                           | 229                        | 426                    |
| 1994 | 67                            | 55                         | 122                    | 2009 | 216                           | 237                        | 453                    |
| 1995 | 74                            | 54                         | 128                    | 2010 | 238                           | 241                        | 479                    |
| 1996 | 76                            | 74                         | 150                    | 2011 | 256                           | 251                        | 507                    |
| 1997 | 80                            | 86                         | 166                    | 2012 | 276                           | 263                        | 539                    |
| 1998 | 83                            | 103                        | 186                    | 2013 | 300                           | 276                        | 576                    |
| 1999 | 94                            | 117                        | 211                    | 2014 | 328                           | 292                        | 620                    |
|      |                               |                            |                        | 2015 | 349                           | 307                        | 656                    |

### Figure 3 – Trends in Adult/Adolescent Reported HIV Diagnoses by Sex at Birth, 1985-2015, Reported through 6/30/2016

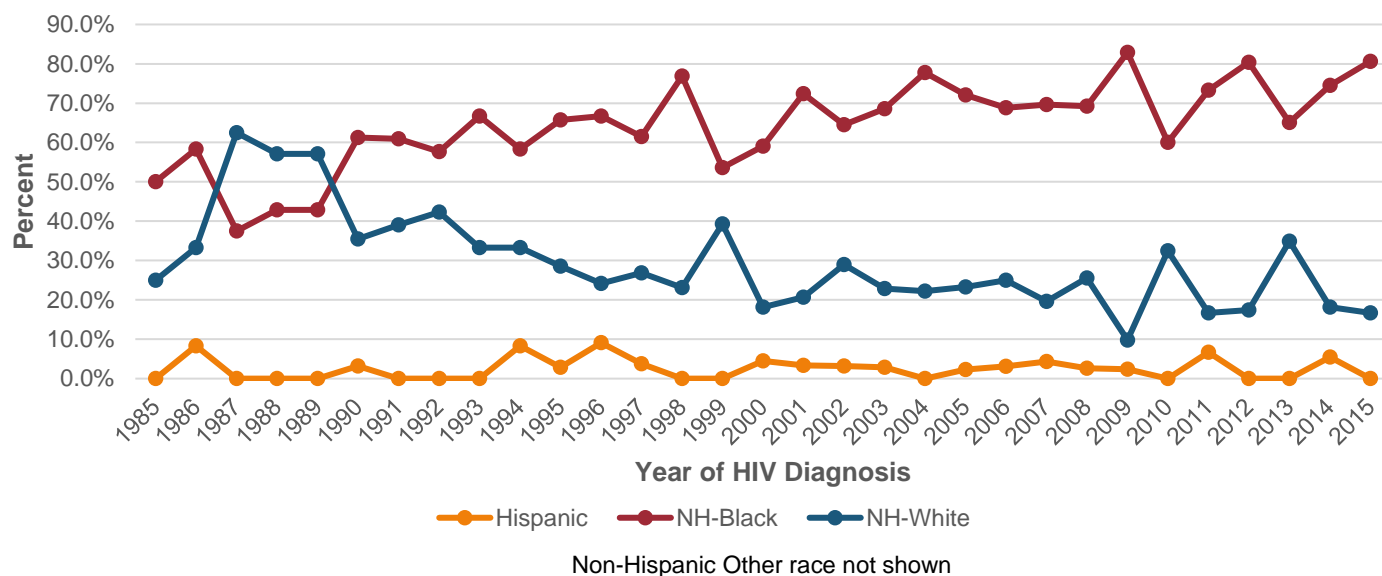
Percent by Sex at Birth of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



| YEAR OF HIV DIAGNOSIS | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |        |          | YEAR OF HIV DIAGNOSIS | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |        |          |
|-----------------------|---|--------|----------|-----------------------|---|--------|----------|
|                       | No.                                     | % Male | % Female |                       | No.                                     | % Male | % Female |
| <1985                 | 2                                       | 100.0% | 0.0%     | 2000                  | 22                                      | 45.5%  | 54.5%    |
| 1985                  | 8                                       | 75.0%  | 25.0%    | 2001                  | 29                                      | 65.5%  | 34.5%    |
| 1986                  | 12                                      | 75.0%  | 25.0%    | 2002                  | 31                                      | 71.0%  | 29.0%    |
| 1987                  | 16                                      | 75.0%  | 25.0%    | 2003                  | 35                                      | 57.1%  | 42.9%    |
| 1988                  | 14                                      | 85.7%  | 14.3%    | 2004                  | 36                                      | 61.1%  | 38.9%    |
| 1989                  | 21                                      | 76.2%  | 23.8%    | 2005                  | 43                                      | 62.8%  | 37.2%    |
| 1990                  | 31                                      | 71.0%  | 29.0%    | 2006                  | 32                                      | 65.6%  | 34.4%    |
| 1991                  | 23                                      | 82.6%  | 17.4%    | 2007                  | 46                                      | 65.2%  | 34.8%    |
| 1992                  | 26                                      | 61.5%  | 38.5%    | 2008                  | 39                                      | 71.8%  | 28.2%    |
| 1993                  | 18                                      | 44.4%  | 55.6%    | 2009                  | 41                                      | 58.5%  | 41.5%    |
| 1994                  | 24                                      | 66.7%  | 33.3%    | 2010                  | 40                                      | 72.5%  | 27.5%    |
| 1995                  | 35                                      | 51.4%  | 48.6%    | 2011                  | 30                                      | 70.0%  | 30.0%    |
| 1996                  | 33                                      | 60.6%  | 39.4%    | 2012                  | 46                                      | 71.7%  | 28.3%    |
| 1997                  | 26                                      | 53.8%  | 46.2%    | 2013                  | 43                                      | 69.8%  | 30.2%    |
| 1998                  | 26                                      | 61.5%  | 38.5%    | 2014                  | 55                                      | 65.5%  | 34.5%    |
| 1999                  | 28                                      | 71.4%  | 28.6%    | 2015                  | 36                                      | 69.4%  | 30.6%    |
|                       |   |        |          | TOTAL                 | 947                                     | 65.8%  | 34.2%    |

**Figure 4 – Trends in Adult/Adolescent Reported HIV Diagnoses by Race/Ethnicity, 1985-2015, Reported through 6/30/2016**

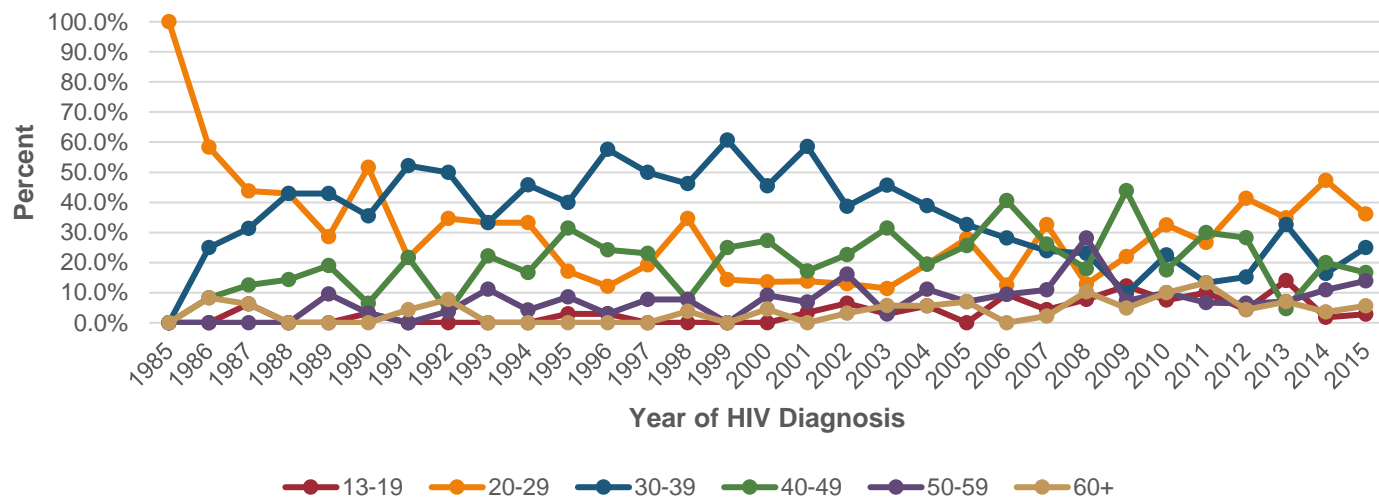
Percent by Race/Ethnicity of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



| YEAR OF HIV<br>DIAGNOSIS | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |            |                               |                               |                              |
|--------------------------|---|------------|-------------------------------|-------------------------------|------------------------------|
|                          | No.                                     | % Hispanic | % Non-Hispanic<br>Black, only | % Non-Hispanic<br>White, only | % Non-Hispanic Other<br>Race |
| <1985                    | 2                                       | 0.0%       | 50.0%                         | 50.0%                         | 0.0%                         |
| 1985                     | 8                                       | 0.0%       | 50.0%                         | 25.0%                         | 25.0%                        |
| 1986                     | 12                                      | 8.3%       | 58.3%                         | 33.3%                         | 0.0%                         |
| 1987                     | 16                                      | 0.0%       | 37.5%                         | 62.5%                         | 0.0%                         |
| 1988                     | 14                                      | 0.0%       | 42.9%                         | 57.1%                         | 0.0%                         |
| 1989                     | 21                                      | 0.0%       | 42.9%                         | 57.1%                         | 0.0%                         |
| 1990                     | 31                                      | 3.2%       | 61.3%                         | 35.5%                         | 0.0%                         |
| 1991                     | 23                                      | 0.0%       | 60.9%                         | 39.1%                         | 0.0%                         |
| 1992                     | 26                                      | 0.0%       | 57.7%                         | 42.3%                         | 0.0%                         |
| 1993                     | 18                                      | 0.0%       | 66.7%                         | 33.3%                         | 0.0%                         |
| 1994                     | 24                                      | 8.3%       | 58.3%                         | 33.3%                         | 0.0%                         |
| 1995                     | 35                                      | 2.9%       | 65.7%                         | 28.6%                         | 2.9%                         |
| 1996                     | 33                                      | 9.1%       | 66.7%                         | 24.2%                         | 0.0%                         |
| 1997                     | 26                                      | 3.8%       | 61.5%                         | 26.9%                         | 7.7%                         |
| 1998                     | 26                                      | 0.0%       | 76.9%                         | 23.1%                         | 0.0%                         |
| 1999                     | 28                                      | 0.0%       | 53.6%                         | 39.3%                         | 7.1%                         |
| 2000                     | 22                                      | 4.5%       | 59.1%                         | 18.2%                         | 18.2%                        |
| 2001                     | 29                                      | 3.4%       | 72.4%                         | 20.7%                         | 3.4%                         |
| 2002                     | 31                                      | 3.2%       | 64.5%                         | 29.0%                         | 3.2%                         |
| 2003                     | 35                                      | 2.9%       | 68.6%                         | 22.9%                         | 5.7%                         |
| 2004                     | 36                                      | 0.0%       | 77.8%                         | 22.2%                         | 0.0%                         |
| 2005                     | 43                                      | 2.3%       | 72.1%                         | 23.3%                         | 2.3%                         |
| 2006                     | 32                                      | 3.1%       | 68.8%                         | 25.0%                         | 3.1%                         |
| 2007                     | 46                                      | 4.3%       | 69.6%                         | 19.6%                         | 6.5%                         |
| 2008                     | 39                                      | 2.6%       | 69.2%                         | 25.6%                         | 2.6%                         |
| 2009                     | 41                                      | 2.4%       | 82.9%                         | 9.8%                          | 4.9%                         |
| 2010                     | 40                                      | 0.0%       | 60.0%                         | 32.5%                         | 7.5%                         |
| 2011                     | 30                                      | 6.7%       | 73.3%                         | 16.7%                         | 3.3%                         |
| 2012                     | 46                                      | 0.0%       | 80.4%                         | 17.4%                         | 2.2%                         |
| 2013                     | 43                                      | 0.0%       | 65.1%                         | 34.9%                         | 0.0%                         |
| 2014                     | 55                                      | 5.5%       | 74.5%                         | 18.2%                         | 1.8%                         |
| 2015                     | 36                                      | 0.0%       | 80.6%                         | 16.7%                         | 2.8%                         |
| TOTAL                    | 947                                     | 2.5%       | 67.2%                         | 27.1%                         | 3.2%                         |

**Figure 5 – Trends in Adult/Adolescent Reported HIV Diagnoses by Age at Diagnosis, 1985-2015, Reported through 6/30/2016**

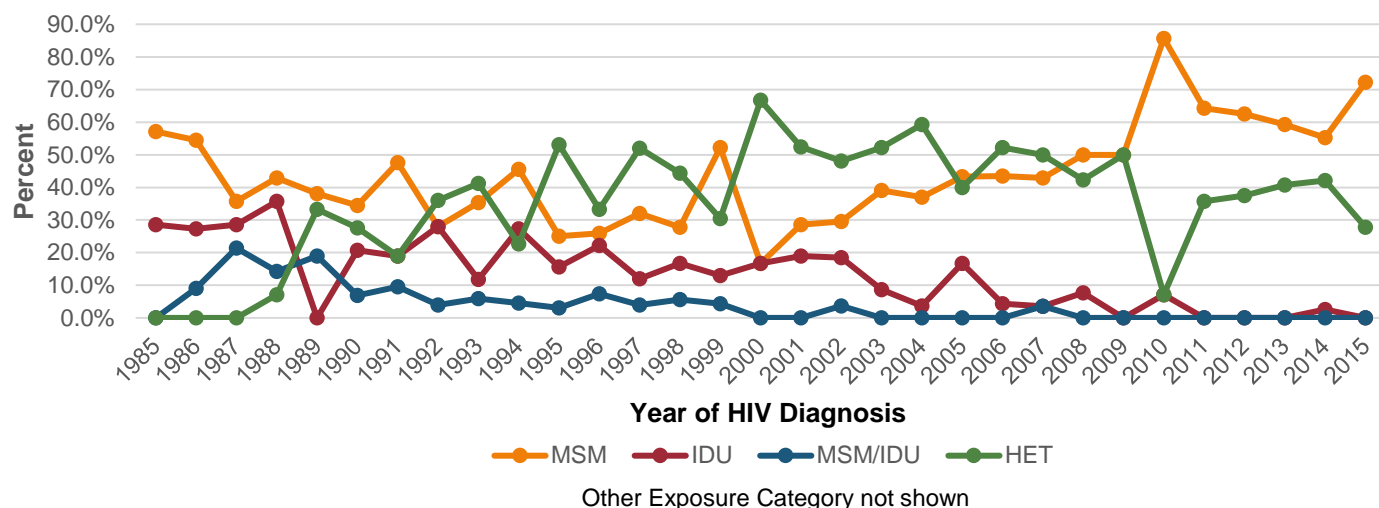
Percent by Age at HIV Diagnosis of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



| YEAR OF HIV<br>DIAGNOSIS | REPORTED ADULT/ADOLESCENT HIV DIAGNOSES |             |             |             |             |             |           |
|--------------------------|---|-------------|-------------|-------------|-------------|-------------|-----------|
|                          | No.                                     | % Age 13-19 | % Age 20-29 | % Age 30-39 | % Age 40-49 | % Age 50-59 | % Age 60+ |
| <1985                    | 2                                       | 50.0%       | 0.0%        | 0.0%        | 50.0%       | 0.0%        | 0.0%      |
| 1985                     | 8                                       | 0.0%        | 100.0%      | 0.0%        | 0.0%        | 0.0%        | 0.0%      |
| 1986                     | 12                                      | 0.0%        | 58.3%       | 25.0%       | 8.3%        | 0.0%        | 8.3%      |
| 1987                     | 16                                      | 6.3%        | 43.8%       | 31.3%       | 12.5%       | 0.0%        | 6.3%      |
| 1988                     | 14                                      | 0.0%        | 42.9%       | 42.9%       | 14.3%       | 0.0%        | 0.0%      |
| 1989                     | 21                                      | 0.0%        | 28.6%       | 42.9%       | 19.0%       | 9.5%        | 0.0%      |
| 1990                     | 31                                      | 3.2%        | 51.6%       | 35.5%       | 6.5%        | 3.2%        | 0.0%      |
| 1991                     | 23                                      | 0.0%        | 21.7%       | 52.2%       | 21.7%       | 0.0%        | 4.3%      |
| 1992                     | 26                                      | 0.0%        | 34.6%       | 50.0%       | 3.8%        | 3.8%        | 7.7%      |
| 1993                     | 18                                      | 0.0%        | 33.3%       | 33.3%       | 22.2%       | 11.1%       | 0.0%      |
| 1994                     | 24                                      | 0.0%        | 33.3%       | 45.8%       | 16.7%       | 4.2%        | 0.0%      |
| 1995                     | 35                                      | 2.9%        | 17.1%       | 40.0%       | 31.4%       | 8.6%        | 0.0%      |
| 1996                     | 33                                      | 3.0%        | 12.1%       | 57.6%       | 24.2%       | 3.0%        | 0.0%      |
| 1997                     | 26                                      | 0.0%        | 19.2%       | 50.0%       | 23.1%       | 7.7%        | 0.0%      |
| 1998                     | 26                                      | 0.0%        | 34.6%       | 46.2%       | 7.7%        | 7.7%        | 3.8%      |
| 1999                     | 28                                      | 0.0%        | 14.3%       | 60.7%       | 25.0%       | 0.0%        | 0.0%      |
| 2000                     | 22                                      | 0.0%        | 13.6%       | 45.5%       | 27.3%       | 9.1%        | 4.5%      |
| 2001                     | 29                                      | 3.4%        | 13.8%       | 58.6%       | 17.2%       | 6.9%        | 0.0%      |
| 2002                     | 31                                      | 6.5%        | 12.9%       | 38.7%       | 22.6%       | 16.1%       | 3.2%      |
| 2003                     | 35                                      | 2.9%        | 11.4%       | 45.7%       | 31.4%       | 2.9%        | 5.7%      |
| 2004                     | 36                                      | 5.6%        | 19.4%       | 38.9%       | 19.4%       | 11.1%       | 5.6%      |
| 2005                     | 43                                      | 0.0%        | 27.9%       | 32.6%       | 25.6%       | 7.0%        | 7.0%      |
| 2006                     | 32                                      | 9.4%        | 12.5%       | 28.1%       | 40.6%       | 9.4%        | 0.0%      |
| 2007                     | 46                                      | 4.3%        | 32.6%       | 23.9%       | 26.1%       | 10.9%       | 2.2%      |
| 2008                     | 39                                      | 7.7%        | 12.8%       | 23.1%       | 17.9%       | 28.2%       | 10.3%     |
| 2009                     | 41                                      | 12.2%       | 22.0%       | 9.8%        | 43.9%       | 7.3%        | 4.9%      |
| 2010                     | 40                                      | 7.5%        | 32.5%       | 22.5%       | 17.5%       | 10.0%       | 10.0%     |
| 2011                     | 30                                      | 10.0%       | 26.7%       | 13.3%       | 30.0%       | 6.7%        | 13.3%     |
| 2012                     | 46                                      | 4.3%        | 41.3%       | 15.2%       | 28.3%       | 6.5%        | 4.3%      |
| 2013                     | 43                                      | 14.0%       | 34.9%       | 32.6%       | 4.7%        | 7.0%        | 7.0%      |
| 2014                     | 55                                      | 1.8%        | 47.3%       | 16.4%       | 20.0%       | 10.9%       | 3.6%      |
| 2015                     | 36                                      | 2.8%        | 36.1%       | 25.0%       | 16.7%       | 13.9%       | 5.6%      |
| TOTAL                    | 947                                     | 4.2%        | 28.2%       | 33.7%       | 21.6%       | 8.1%        | 4.1%      |

## Figure 6 – Trends in Adult/Adolescent Reported HIV Diagnoses by Exposure Category, 1985-2015, Reported through 6/30/2016

Percent by Exposure Category of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis (Adult/Adolescent Reported HIV Diagnoses) and with Reported Exposure Category by Year of HIV Diagnosis from 1985 through 2015, as Reported through 6/30/2016



| YEAR OF HIV DIAGNOSIS | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |                        |        |       |           |       |
|-----------------------|---|------------------------|--------|-------|-----------|-------|
|                       | No.                                     | With Exposure Category |        |       |           |       |
|                       |   | No.                    | % MSM  | % IDU | % MSM/IDU | % HET |
| <1985                 | 2                                       | 2                      | 100.0% | 0.0%  | 0.0%      | 0.0%  |
| 1985                  | 8                                       | 7                      | 57.1%  | 28.6% | 0.0%      | 0.0%  |
| 1986                  | 12                                      | 11                     | 54.5%  | 27.3% | 9.1%      | 0.0%  |
| 1987                  | 16                                      | 14                     | 35.7%  | 28.6% | 21.4%     | 0.0%  |
| 1988                  | 14                                      | 14                     | 42.9%  | 35.7% | 14.3%     | 7.1%  |
| 1989                  | 21                                      | 21                     | 38.1%  | 0.0%  | 19.0%     | 33.3% |
| 1990                  | 31                                      | 29                     | 34.5%  | 20.7% | 6.9%      | 27.6% |
| 1991                  | 23                                      | 21                     | 47.6%  | 19.0% | 9.5%      | 19.0% |
| 1992                  | 26                                      | 25                     | 28.0%  | 28.0% | 4.0%      | 36.0% |
| 1993                  | 18                                      | 17                     | 35.3%  | 11.8% | 5.9%      | 41.2% |
| 1994                  | 24                                      | 22                     | 45.5%  | 27.3% | 4.5%      | 22.7% |
| 1995                  | 35                                      | 32                     | 25.0%  | 15.6% | 3.1%      | 53.1% |
| 1996                  | 33                                      | 27                     | 25.9%  | 22.2% | 7.4%      | 33.3% |
| 1997                  | 26                                      | 25                     | 32.0%  | 12.0% | 4.0%      | 52.0% |
| 1998                  | 26                                      | 18                     | 27.8%  | 16.7% | 5.6%      | 44.4% |
| 1999                  | 28                                      | 23                     | 52.2%  | 13.0% | 4.3%      | 30.4% |
| 2000                  | 22                                      | 18                     | 16.7%  | 16.7% | 0.0%      | 66.7% |
| 2001                  | 29                                      | 21                     | 28.6%  | 19.0% | 0.0%      | 52.4% |
| 2002                  | 31                                      | 27                     | 29.6%  | 18.5% | 3.7%      | 48.1% |
| 2003                  | 35                                      | 23                     | 39.1%  | 8.7%  | 0.0%      | 52.2% |
| 2004                  | 36                                      | 27                     | 37.0%  | 3.7%  | 0.0%      | 59.3% |
| 2005                  | 43                                      | 30                     | 43.3%  | 16.7% | 0.0%      | 40.0% |
| 2006                  | 32                                      | 23                     | 43.5%  | 4.3%  | 0.0%      | 52.2% |
| 2007                  | 46                                      | 28                     | 42.9%  | 3.6%  | 3.6%      | 50.0% |
| 2008                  | 39                                      | 26                     | 50.0%  | 7.7%  | 0.0%      | 42.3% |
| 2009                  | 41                                      | 14                     | 50.0%  | 0.0%  | 0.0%      | 50.0% |
| 2010                  | 40                                      | 14                     | 85.7%  | 7.1%  | 0.0%      | 7.1%  |
| 2011                  | 30                                      | 14                     | 64.3%  | 0.0%  | 0.0%      | 35.7% |
| 2012                  | 46                                      | 32                     | 62.5%  | 0.0%  | 0.0%      | 37.5% |
| 2013                  | 43                                      | 27                     | 59.3%  | 0.0%  | 0.0%      | 40.7% |
| 2014                  | 55                                      | 38                     | 55.3%  | 2.6%  | 0.0%      | 42.1% |
| 2015*                 | 36                                      | 18                     | 72.2%  | 0.0%  | 0.0%      | 27.8% |
| TOTAL                 | 947                                     | 688                    | 43.0%  | 12.4% | 3.6%      | 38.5% |

\*2015 reported HIV exposure data are preliminary.

## Section III – Adult/Adolescent Cases by Jurisdiction

**Table 1 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Jurisdiction, Reported through 6/30/2016**

| Jurisdiction<br>of Residence<br>at HIV<br>Diagnosis | Population<br>Age 13+ | Adult/Adolescent Reported HIV Diagnoses |               |      |                             |                           |                              |                            |                       |                |                 |
|---|-----------------------|---|---------------|------|-----------------------------|---------------------------|------------------------------|----------------------------|-----------------------|----------------|-----------------|
|   |                       | No.                                     | % of<br>Total | Rate | No.<br>Linked<br>to<br>Care | %<br>Linked<br>to<br>Care | No. Late<br>HIV<br>Diagnosis | % Late<br>HIV<br>Diagnosis | First CD4 Test Result |                |                 |
|   |                       |   |               |      |                             |                           |                              |                            | No.<br>with<br>Test   | % with<br>Test | Median<br>Count |
| Calvert   | 76,074                | 3                                       | 8.3%          | 3.9  | ***                         | ***                       | ***                          | ***                        | ***                   | ***            | ***             |
| Charles   | 129,678               | 26                                      | 72.2%         | 20.0 | 21                          | 80.8%                     | ***                          | ***                        | 19                    | 73.1%          | 425             |
| Saint Mary's  | 91,688                | 7                                       | 19.4%         | 7.6  | ***                         | ***                       | ***                          | ***                        | ***                   | ***            | ***             |
| TOTAL   | 297,441               | 36                                      | 100.0%        | 12.1 | 27                          | 75.0%                     | 9                            | 25.0%                      | 27                    | 75.0%          | 367             |

\*\*\* Data withheld due to low population counts and/or case counts

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Jurisdiction of Residence at HIV Diagnosis:** Jurisdiction of residence at time of initial HIV diagnosis.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Median Count (First CD4):** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Number Linked to Care:** Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

**Percent Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Number of Late HIV diagnosis (for HIV diagnoses):** Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

**Percent Late HIV Diagnosis (for HIV diagnoses):** Number and percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.



**Table 2 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Jurisdiction, Reported through 6/30/2016**

| JURISDICTION OF RESIDENCE AT AIDS DIAGNOSIS | POPULATION AGE 13+ | ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES |            |      |                               |                      |
|---|--------------------|--|------------|------|-------------------------------|----------------------|
|   |                    | No.                                      | % of Total | Rate | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| Calvert                                     | 76,074             | 3  | 17.6%      | 3.9  | ***                           | ***                  |
| Charles                                     | 129,678            | 9  | 52.9%      | 6.9  | 6.8                           | 33.3%                |
| Saint Mary's                                | 91,688             | 5  | 29.4%      | 5.5  | 1.3                           | 80.0%                |
| <b>TOTAL</b>                                | 297,441            | 17                                       | 100.0%     | 5.7  | 4.3                           | 52.9%                |

\*\*\* Data withheld due to low population counts and/or case counts

**Adult/Adolescent Reported AIDS Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

**Jurisdiction of Residence at AIDS Diagnosis:** Jurisdiction of residence at time of initial AIDS diagnosis.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Mean Years from HIV Diagnosis (to AIDS Diagnosis):** Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

**Percent Late HIV Diagnosis (for AIDS diagnoses):** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

**Table 3 – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016**

| JURISDICTION OF RESIDENCE AT DIAGNOSIS | POPULATION AGE 13+ | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS |               |              | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS |               |              | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |               |              |                |
|--|--------------------|--|---------------|--------------|---|---------------|--------------|---|---------------|--------------|----------------|
|  |                    | No.  | % of Total    | Rate         | No.   | % of Total    | Rate         | No.                                     | % of Total    | Rate         | Ratio (1 in X) |
| Calvert                                | 76,074             | 50   | 14.5%         | 65.7         | 53  | 17.5%         | 69.7         | 103                                     | 15.9%         | 135.4        | 738            |
| Charles                                | 129,678            | 229  | 66.2%         | 176.6        | 183   | 60.4%         | 141.1        | 412                                     | 63.5%         | 317.7        | 314            |
| Saint Mary's                           | 91,688             | 67   | 19.4%         | 73.1         | 67  | 22.1%         | 73.1         | 134                                     | 20.6%         | 146.1        | 684            |
| <b>TOTAL</b>                           | <b>297,441</b>     | <b>346</b>                                     | <b>100.0%</b> | <b>116.3</b> | <b>303</b>                                  | <b>100.0%</b> | <b>101.9</b> | <b>649</b>                              | <b>100.0%</b> | <b>218.2</b> | <b>458</b>     |

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2015.

**Adult/Adolescent Living HIV Cases without AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Living HIV Cases with AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 3A – Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction and Current Residence, Reported through 6/30/2016**

| Jurisdiction of Residence | Population Age 13+ | Adult/Adolescent Living HIV Cases with or without AIDS Diagnosis |            |       |       |                   |            |       |       |          |
|---------------------------|--------------------|--|------------|-------|-------|-------------------|------------|-------|-------|----------|
|                           |                    | Residence at HIV Diagnosis                                       |            |       |       | Current Residence |            |       |       | % Change |
|                           |                    | No.  | % of Total | Rate  | Ratio | No.               | % of Total | Rate  | Ratio |          |
| Calvert                   | 76,074             | 103  | 15.9%      | 135.4 | 738   | 120               | 16.4%      | 157.7 | 633   | 16.5%    |
| Charles                   | 129,678            | 412  | 63.5%      | 317.7 | 314   | 453               | 62.0%      | 349.3 | 286   | 10.0%    |
| Saint Mary's              | 91,688             | 134  | 20.6%      | 146.1 | 684   | 158               | 21.6%      | 172.3 | 580   | 17.9%    |
| TOTAL                     | 297,441            | 649  | 100.0%     | 218.2 | 458   | 731               | 100.0%     | 245.8 | 406   | 12.6%    |

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Jurisdiction of Residence:** Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2015.

**Residence at HIV Diagnosis:** Jurisdiction of residence at time of initial HIV diagnosis.

**Current Residence:** Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Percent Change:** The extent to which a county gained or lost HIV/AIDS cases relative to the number of cases diagnosed in the county.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

**Table 4 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, Reported through 6/30/2016**

| JURISDICTION OF RESIDENCE<br>AT DIAGNOSIS | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                        |              |              |              |              |              |              |
|---|---|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|   | No.                                     | Recent CD4 Test Result |              |              |              |              |              |              |
|   |   | No. with Test          | % with Test  | Median Count | <200         | 200-349      | 350-499      | 500+         |
| Calvert                                   | 103                                     | 72                     | 69.9%        | 648          | 8.3%         | 12.5%        | 12.5%        | 66.7%        |
| Charles                                   | 412                                     | 248                    | 60.2%        | 610          | 10.1%        | 11.3%        | 16.5%        | 62.1%        |
| Saint Mary's                              | 134                                     | 88                     | 65.7%        | 488          | 11.4%        | 14.8%        | 26.1%        | 47.7%        |
| <b>TOTAL</b>                              | <b>649</b>                              | <b>408</b>             | <b>62.9%</b> | <b>592</b>   | <b>10.0%</b> | <b>12.3%</b> | <b>17.9%</b> | <b>59.8%</b> |

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

**Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

**Table 5 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016**

| JURISDICTION OF RESIDENCE AT<br>DIAGNOSIS | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                               |              |              |                     |
|---|---|-------------------------------|--------------|--------------|---------------------|
|   | No.                                     | Recent Viral Load Test Result |              |              |                     |
|   |   | No. with Test                 | % with Test  | % Suppressed | Median Unsuppressed |
| Calvert                                   | 103                                     | 74                            | 71.8%        | 86.5%        | 17,757              |
| Charles                                   | 412                                     | 252                           | 61.2%        | 75.8%        | 14,740              |
| Saint Mary's                              | 134                                     | 85                            | 63.4%        | 78.8%        | 23,119              |
| <b>TOTAL</b>                              | <b>649</b>                              | <b>411</b>                    | <b>63.3%</b> | <b>78.3%</b> | <b>17,250</b>       |

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

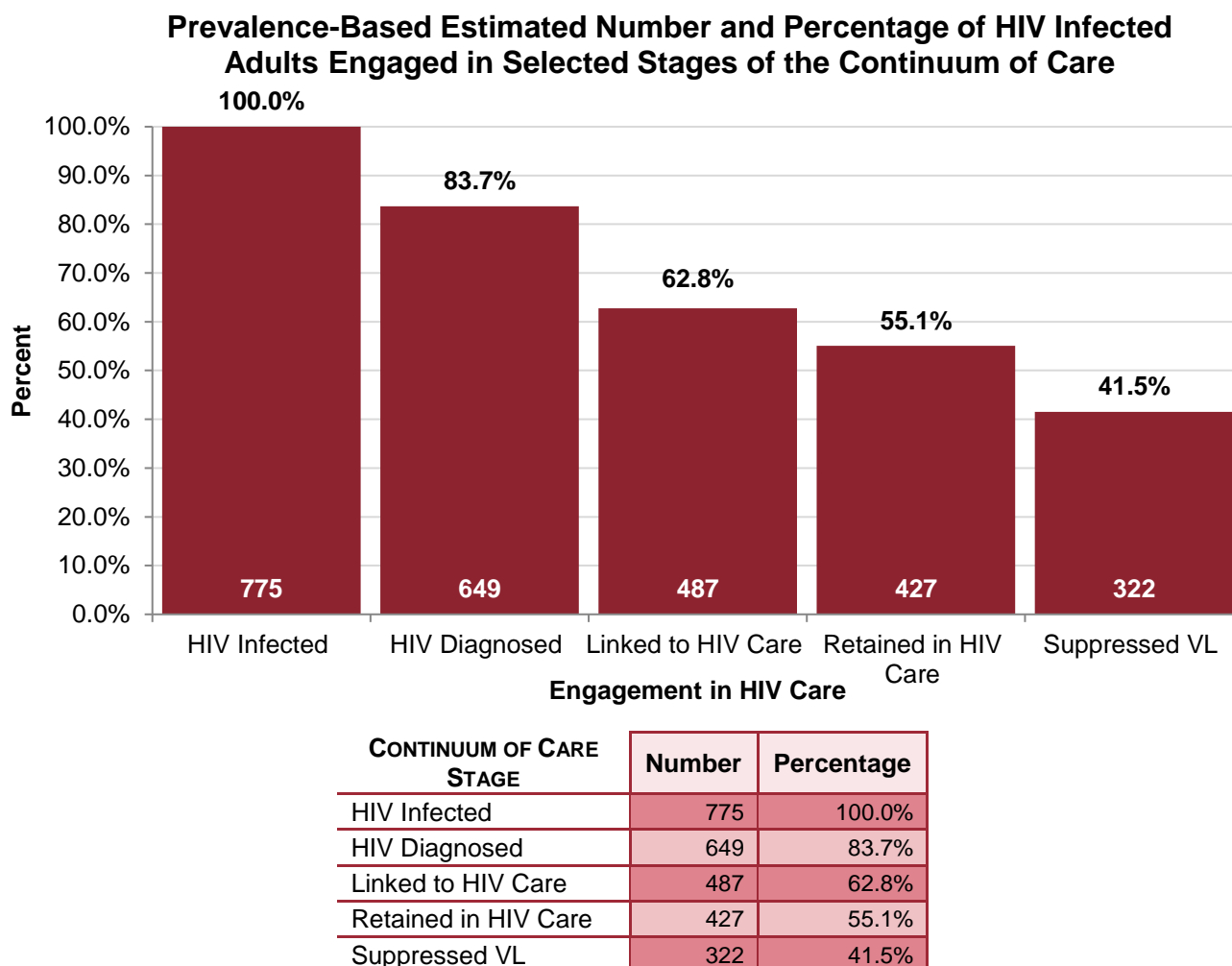
**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year, reported through 6/30/2016.

**Percent Suppressed (Viral Load):** Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

**Median Unsuppressed (Viral Load):** Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

## Figure 7 – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

In their 2011 article in *Clinical Infectious Diseases*, Gardner et al.<sup>1</sup> utilize a continuum of care “cascade” to illustrate estimates of the number of persons living with HIV who belong to each of the stages of engagement in HIV care. The prevalence-based Southern Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)<sup>2</sup> to generate an estimated number of HIV infected persons in the Southern Region. It then uses local data to describe the number and percentage of persons living with HIV in the Southern Region who belong to each of the stages of engagement in HIV care.



**HIV Infected:** HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

**HIV Diagnosed:** Adult/adolescent total living HIV cases as of December 31<sup>st</sup> of the specified year.

**Linked to HIV Care:** HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Retained in HIV Care:** HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

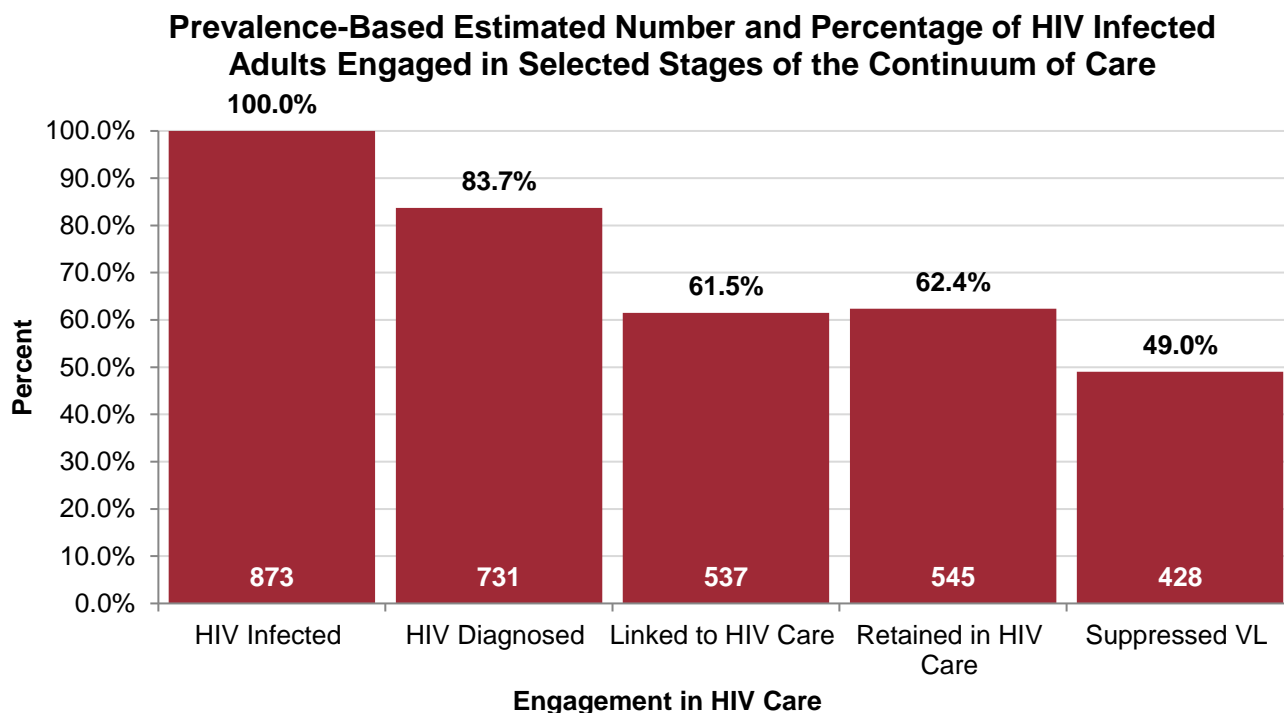
**Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year, reported through 6/30/2016 of less than 200 copies per milliliter.

<sup>1</sup> Gardner et al, “The Spectrum of Engagement in HIV Care and its Relevance to Test and Treat Strategies for Prevention of HIV Infection.” *Clin Infect Dis.* 2011; 52 (6): 7930-800.

<sup>2</sup> Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

## Figure 7A – Prevalence-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The prevalence-based Southern Region Engagement in HIV Care Cascade (below) uses a CDC estimate of the percentage of undiagnosed persons in Maryland (16.3%)<sup>1</sup> to generate an estimated number of HIV infected persons in the Southern Region. It then uses local data for current Southern Region residents to describe the number and percentage of persons living with HIV in the Southern Region who belong to each of the stages of engagement in HIV care



| CONTINUUM OF CARE STAGE | Number | Percentage |
|-------------------------|--------|------------|
| HIV Infected            | 873    | 100.0%     |
| HIV Diagnosed           | 731    | 83.7%      |
| Linked to HIV Care      | 537    | 61.5%      |
| Retained in HIV Care    | 545    | 62.4%      |
| Suppressed VL           | 428    | 49.0%      |

**HIV Infected:** HIV Diagnosed divided by one minus the estimate of undiagnosed HIV infections (16.3%) in Maryland.

**HIV Diagnosed:** Adult/adolescent total living HIV as of December 31<sup>st</sup> of the specified year with a recent address in Maryland between 2009 and 2016.

**Linked to HIV Care:** HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Retained in HIV Care:** HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

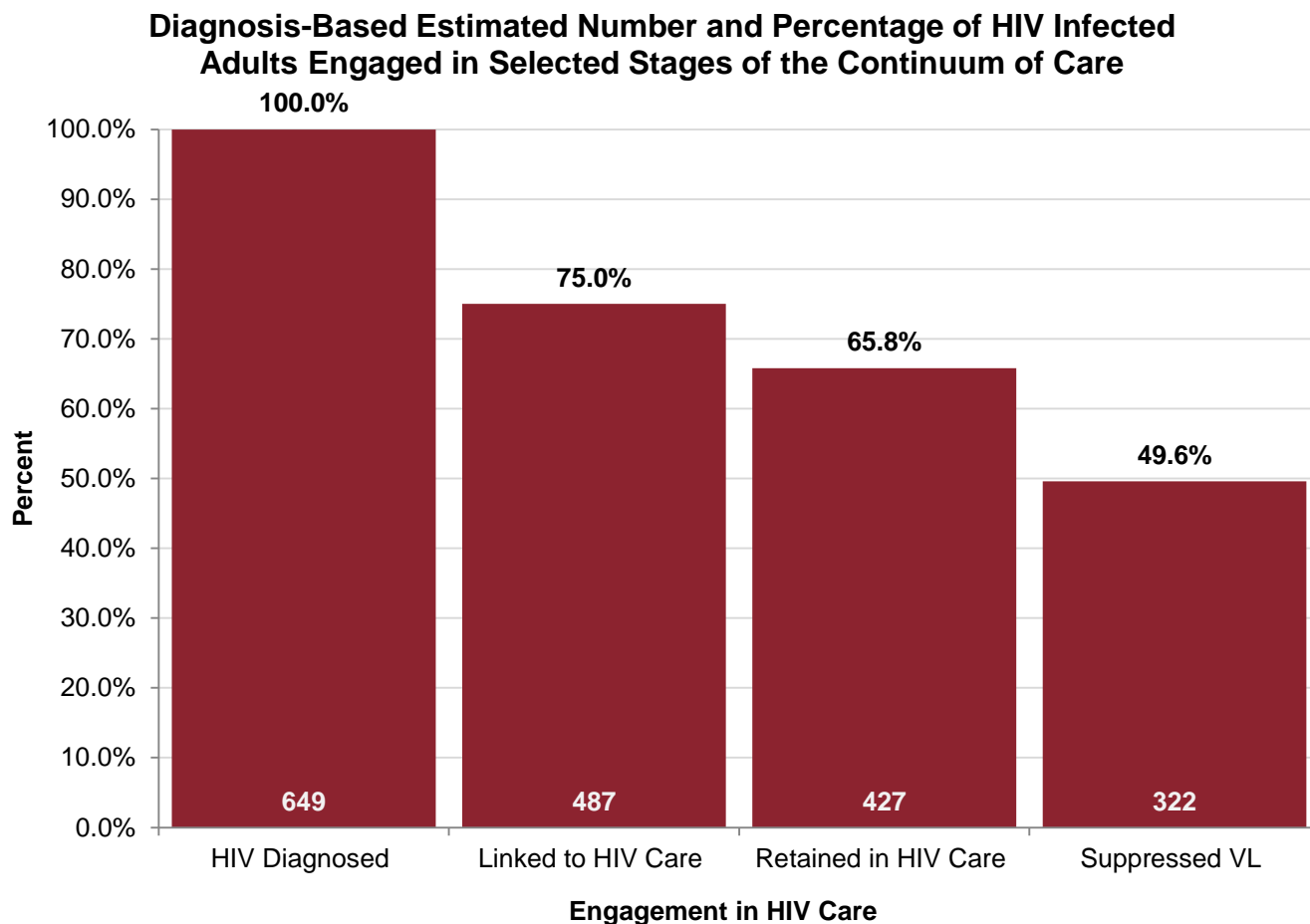
**Suppressed Viral Load:** HIV Diagnosed with the most recent viral load reported in the 12 months prior to December 31<sup>st</sup> of the specified year of less than 200 copies per milliliter.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.

<sup>1</sup> Centers for Disease Control and Prevention. Monitoring selected national HIV prevention and care objectives by using HIV surveillance data—United States and 6 dependent areas, 2014. *HIV Surveillance Supplemental Report* 2016;21(No. 4). <http://www.cdc.gov/hiv/library/reports/surveillance/>. Published July 2016.

## Figure 8 – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, Reported through 6/30/2016

The diagnosis-based Southern Region Engagement in HIV Care Cascade (below) uses local data to describe the number and percentage of persons diagnosed with HIV in the Southern Region who belong to each of the stages of engagement in HIV care.



| CONTINUUM OF CARE STAGE | Number | Percentage |
|-------------------------|--------|------------|
| HIV Diagnosed           | 649    | 100.0%     |
| Linked to HIV Care      | 487    | 75.0%      |
| Retained in HIV Care    | 427    | 65.8%      |
| Suppressed VL           | 322    | 49.6%      |

**HIV Diagnosed:** Adult/adolescent total living HIV cases as of December 31<sup>st</sup> of the specified year.

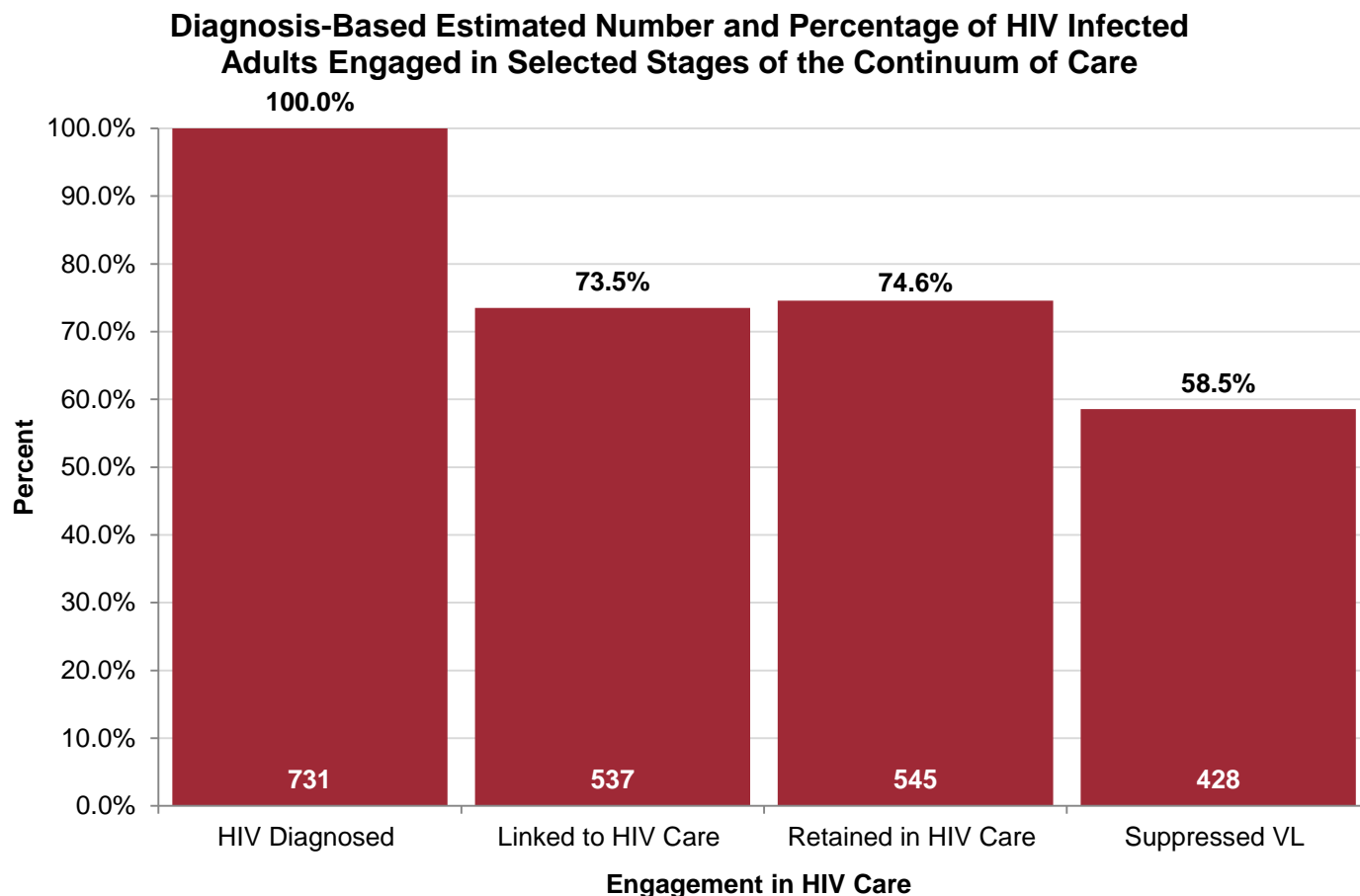
**Linked to HIV Care:** HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Retained in HIV Care:** HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016

**Suppressed Viral Load:** HIV Diagnosed with the most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

## Figure 8A – Diagnosis-Based Estimated Adult/Adolescent 2015 HIV Continuum of Care Cascades, by Current Residence, Reported through 6/30/2016

The diagnosis-based Southern Region Engagement in HIV Care Cascade (below) uses local data for current Southern Region residents to describe the number and percentage of persons diagnosed with HIV in the Southern Region who belong to each of the stages of engagement in HIV care.



| CONTINUUM OF CARE STAGE | Number | Percentage |
|-------------------------|--------|------------|
| HIV Diagnosed           | 731    | 100.0%     |
| Linked to HIV Care      | 537    | 73.5%      |
| Retained in HIV Care    | 545    | 74.6%      |
| Suppressed VL           | 428    | 58.5%      |

**HIV Diagnosed:** Adult/adolescent total living HIV as of December 31<sup>st</sup> of the specified year with a recent address in Maryland between 2009 and 2016.

**Linked to HIV Care:** HIV Diagnosed multiplied by the percent of adult/adolescent reported HIV diagnoses during the specified year with a reported CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Retained in HIV Care:** HIV Diagnosed with a CD4 or viral load test result measured in the specified year, reported through 6/30/2016.

**Suppressed Viral Load:** HIV Diagnosed with the most recent viral measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

For additional information regarding current residence, please contact the Center for HIV Surveillance, Epidemiology and Evaluation in the Maryland Department of Health and Mental Hygiene at 410-767-5227.



## Section IV – Cases by Age

**Table 6 – HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, Percent Late Diagnosis, by Age at HIV Diagnosis, Reported through 6/30/2016**

| AGE AT HIV DIAGNOSIS | POPULATION     | REPORTED HIV DIAGNOSES |               |             |                    |                  |                    |                  |  | First CD4 Test Result |              |              |
|----------------------|----------------|------------------------|---------------|-------------|--------------------|------------------|--------------------|------------------|--|-----------------------|--------------|--------------|
|                      |                | No.                    | % of Total    | Rate        | No. Linked to Care | % Linked to Care | No. Late Diagnosis | % Late Diagnosis |  | No. with Test         | % with Test  | Median Count |
| <5 (Pediatric)       | 21,490         | 0                      | 0.0%          | 0.0         | --                 | --               | --                 | --               |  | --                    | --           | --           |
| 5-12 (Pediatric)     | 39,195         | 0                      | 0.0%          | 0.0         | --                 | --               | --                 | --               |  | --                    | --           | --           |
| 13-19                | 35,847         | 1                      | 2.8%          | 2.8         | ***                | ***              | ***                | ***              |  | ***                   | ***          | ***          |
| 20-29                | 46,454         | 13                     | 36.1%         | 28.0        | 9                  | 69.2%            | ***                | ***              |  | 12                    | 92.3%        | 449          |
| 30-39                | 44,340         | 9                      | 25.0%         | 20.3        | 7                  | 77.8%            | ***                | ***              |  | 6                     | 66.7%        | 525          |
| 40-49                | 51,343         | 6                      | 16.7%         | 11.7        | ***                | ***              | ***                | ***              |  | ***                   | ***          | ***          |
| 50-59                | 56,085         | 5                      | 13.9%         | 8.9         | ***                | ***              | ***                | ***              |  | ***                   | ***          | ***          |
| 60+                  | 63,372         | 2                      | 5.6%          | 3.2         | ***                | ***              | ***                | ***              |  | ***                   | ***          | ***          |
| <b>TOTAL</b>         | <b>358,126</b> | <b>36</b>              | <b>100.0%</b> | <b>10.1</b> | <b>27</b>          | <b>75.0%</b>     | <b>9</b>           | <b>25.0%</b>     |  | <b>27</b>             | <b>75.0%</b> | <b>367</b>   |

\*\*\* Data withheld due to low population counts and/or case counts

**Table 7 – AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Age at AIDS Diagnosis, Reported through 6/30/2016**

| AGE AT AIDS DIAGNOSIS | POPULATION     | REPORTED AIDS DIAGNOSES |            |            |                               |                      |
|-----------------------|----------------|-------------------------|------------|------------|-------------------------------|----------------------|
|                       |                | No.                     | % of Total | Rate       | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| <5 (Pediatric)        | 21,490         | 0                       | 0          | 0.0        | --                            | --                   |
| 5-12 (Pediatric)      | 39,195         | 0                       | 0          | 0.0        | --                            | --                   |
| 13-19                 | 35,847         | 1                       | 5.6        | 2.8        | ***                           | ***                  |
| 20-29                 | 46,454         | 2                       | 11.1       | 4.3        | ***                           | ***                  |
| 30-39                 | 44,340         | 5                       | 27.8       | 11.3       | 4.7                           | 60                   |
| 40-49                 | 51,343         | 4                       | 22.2       | 7.8        | ***                           | ***                  |
| 50-59                 | 56,085         | 5                       | 27.8       | 8.9        | 1.2                           | 80                   |
| 60+                   | 63,372         | 1                       | 5.6        | 1.6        | ***                           | ***                  |
| <b>TOTAL</b>          | <b>358,126</b> | <b>18</b>               | <b>100</b> | <b>5.0</b> | <b>4.3</b>                    | <b>50</b>            |

\*\*\* Data withheld due to low population counts and/or case counts

**Reported HIV Diagnoses:** Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

**Age at HIV Diagnosis:** Age group at time of initial HIV diagnosis.

**Population:** Population estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**First CD4 Test Result:** First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

**Median Count (First CD4):** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Number Linked to Care:** Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

**Percent Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Number of Late HIV diagnosis (for HIV diagnoses):** Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

**Percent Late HIV Diagnosis (for HIV diagnoses):** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**Age at AIDS Diagnosis:** Age group at time of initial AIDS diagnosis.

**Reported AIDS Diagnoses:** Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

**Mean Years from HIV Diagnosis (to AIDS Diagnosis):** Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

**Table 8 – HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016**

| AGE ON<br>12/31/2015 | POPULATION     | LIVING HIV CASES WITHOUT<br>AIDS |               |             | LIVING HIV CASES WITH AIDS |               |             | TOTAL LIVING HIV CASES |               |              |                   |
|----------------------|----------------|----------------------------------|---------------|-------------|----------------------------|---------------|-------------|------------------------|---------------|--------------|-------------------|
|                      |                | No.                              | %             | Rate        | No.                        | %             | Rate        | No.                    | %             | Rate         | Ratio<br>(1 in X) |
| <5                   | 21,490         | 2                                | 0.6%          | 9.3         | 0                          | 0.0%          | 0.0         | 2                      | 0.3%          | 9.3          | 10,745            |
| 5-12                 | 39,195         | 0                                | 0.0%          | 0.0         | 0                          | 0.0%          | 0.0         | 0                      | 0.0%          | 0.0          | --                |
| 13-19                | 35,847         | 2                                | 0.6%          | 5.6         | 3                          | 1.0%          | 8.4         | 5                      | 0.8%          | 13.9         | 7,169             |
| 20-29                | 46,454         | 83                               | 23.8%         | 178.7       | 28                         | 9.1%          | 60.3        | 111                    | 16.9%         | 238.9        | 418               |
| 30-39                | 44,340         | 81                               | 23.2%         | 182.7       | 38                         | 12.4%         | 85.7        | 119                    | 18.1%         | 268.4        | 372               |
| 40-49                | 51,343         | 81                               | 23.2%         | 157.8       | 90                         | 29.3%         | 175.3       | 171                    | 26.1%         | 333.1        | 300               |
| 50-59                | 56,085         | 70                               | 20.1%         | 124.8       | 108                        | 35.2%         | 192.6       | 178                    | 27.1%         | 317.4        | 315               |
| 60+                  | 63,372         | 30                               | 8.6%          | 47.3        | 40                         | 13.0%         | 63.1        | 70                     | 10.7%         | 110.5        | 905               |
| <b>TOTAL</b>         | <b>358,126</b> | <b>349</b>                       | <b>100.0%</b> | <b>97.5</b> | <b>307</b>                 | <b>100.0%</b> | <b>85.7</b> | <b>656</b>             | <b>100.0%</b> | <b>183.2</b> | <b>545</b>        |

**Age on [date]:** Age group of living cases on the specified date.

**Population:** Population estimate for 7/1/2015.

**Adult/Adolescent Living HIV Cases without AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Living HIV Cases with AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 9 – CD4 Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016**

| AGE ON<br>12/31/2015 | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                         |              |              |              |              |              |              |
|----------------------|---|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                      | No.                                     | Recent CD4 Test Results |              |              |              |              |              |              |
|                      |   | No. with Test           | % with Test  | Median Count | <200         | 200-349      | 350-499      | 500+         |
| 13-19                | 2                                       | 2                       | 100.0%       | 611          | 0.0%         | 50.0%        | 0.0%         | 50.0%        |
| 20-29                | 109                                     | 68                      | 62.4%        | 614          | 4.4%         | 13.2%        | 22.1%        | 60.3%        |
| 30-39                | 119                                     | 68                      | 57.1%        | 636          | 11.8%        | 7.4%         | 16.2%        | 64.7%        |
| 40-49                | 171                                     | 109                     | 63.7%        | 543          | 14.7%        | 10.1%        | 19.3%        | 56.0%        |
| 50-59                | 178                                     | 116                     | 65.2%        | 621          | 10.3%        | 14.7%        | 14.7%        | 60.3%        |
| 60+                  | 70                                      | 45                      | 64.3%        | 550          | 4.4%         | 15.6%        | 20.0%        | 60.0%        |
| <b>TOTAL</b>         | <b>649</b>                              | <b>408</b>              | <b>62.9%</b> | <b>592</b>   | <b>10.0%</b> | <b>12.3%</b> | <b>17.9%</b> | <b>59.8%</b> |

**Table 10 – Viral Load Test Results for Adult/Adolescent HIV Cases Alive on 12/31/2015, by Age on 12/31/2015, Reported through 6/30/2016**

| AGE ON<br>12/31/2015 | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                               |              |              |                     |
|----------------------|---|-------------------------------|--------------|--------------|---------------------|
|                      | No.                                     | Recent Viral Load Test Result |              |              |                     |
|                      |   | No. with Test                 | % with Test  | % Suppressed | Median Unsuppressed |
| 13-19                | 2                                       | 2                             | 100.0%       | 50.0%        | 40,100              |
| 20-29                | 109                                     | 67                            | 61.5%        | 74.6%        | 25,866              |
| 30-39                | 119                                     | 74                            | 62.2%        | 71.6%        | 19,530              |
| 40-49                | 171                                     | 105                           | 61.4%        | 75.2%        | 11,595              |
| 50-59                | 178                                     | 118                           | 66.3%        | 83.9%        | 25,090              |
| 60+                  | 70                                      | 45                            | 64.3%        | 88.9%        | 3,199               |
| <b>TOTAL</b>         | <b>649</b>                              | <b>411</b>                    | <b>63.3%</b> | <b>78.3%</b> | <b>17,250</b>       |

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Age on [date]:** Age group of living cases on the specified date.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

**Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year, reported through 6/30/2016.

**Percent Suppressed (Viral Load):** Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

**Median Unsuppressed (Viral Load):** Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

## Section V – Adult/Adolescent Cases by Demographics

**Table 11 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016**

| SEX AT BIRTH | POPULATION<br>AGE 13+* | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |               |      |                             |                           |                             |                     |                       |                |                 |
|--------------|------------------------|---|---------------|------|-----------------------------|---------------------------|-----------------------------|---------------------|-----------------------|----------------|-----------------|
|              |                        | No.                                     | % of<br>Total | Rate | No.<br>Linked<br>to<br>Care | %<br>Linked<br>to<br>Care | No. of<br>Late<br>Diagnosis | % Late<br>Diagnosis | First CD4 Test Result |                |                 |
|              |                        |   |               |      |                             |                           |                             |                     | No.<br>with<br>Test   | % with<br>Test | Median<br>Count |
| Male         | 144,624                | 25                                      | 69.4%         | 17.3 | 18                          | 72.0%                     | 6                           | 24.0%               | 19                    | 76.0%          | 425             |
| Female       | 152,817                | 11                                      | 30.6%         | 7.2  | 9                           | 81.8%                     | 3                           | 27.3%               | 8                     | 72.7%          | 325             |
| TOTAL        | 297,441                | 36                                      | 100.0%        | 12.1 | 27                          | 75.0%                     | 9                           | 25.0%               | 27                    | 75.0%          | 367             |

| RACE/ETHNICITY   | POPULATION<br>AGE 13+* | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |               |      |                             |                           |                             |                     |                       |                |                 |
|--|------------------------|---|---------------|------|-----------------------------|---------------------------|-----------------------------|---------------------|-----------------------|----------------|-----------------|
|  |                        | No.                                     | % of<br>Total | Rate | No.<br>Linked<br>to<br>Care | %<br>Linked<br>to<br>Care | No. of<br>Late<br>Diagnosis | % Late<br>Diagnosis | First CD4 Test Result |                |                 |
|  |                        |   |               |      |                             |                           |                             |                     | No.<br>with<br>Test   | % with<br>Test | Median<br>Count |
| Hispanic   | 12,816                 | 0                                       | 0.0%          | 0.0  | --                          | --                        | --                          | --                  | --                    | --             | --              |
| Non-Hispanic   | 284,624                | 36                                      | 100.0%        | 12.6 | 27                          | 75.0%                     | 9                           | 25.0%               | 27                    | 75.0%          | 367             |
| American<br>Indian/Alaska<br>Native, only              | 1,373                  | 0                                       | 0.0%          | 0.0  | --                          | --                        | --                          | --                  | --                    | --             | --              |
| Asian, only  | 8,146                  | 1                                       | 2.8%          | 12.3 | ***                         | ***                       | ***                         | ***                 | ***                   | ***            | ***             |
| Black, only  | 78,977                 | 29                                      | 80.6%         | 36.7 | 21                          | 72.4%                     | 8                           | 27.6%               | 21                    | 72.4%          | 352             |
| Native<br>Hawaiian/<br>Other Pacific<br>Islander, only | 248                    | 0                                       | 0.0%          | 0.0  | --                          | --                        | --                          | --                  | --                    | --             | --              |
| White, only  | 189,132                | 6                                       | 16.7%         | 3.2  | ***                         | ***                       | ***                         | ***                 | ***                   | ***            | ***             |
| Multiracial/<br>Other                                  | 6,748                  | 0                                       | 0.0%          | 0.0  | --                          | --                        | --                          | --                  | --                    | --             | --              |
| TOTAL  | 297,441                | 36                                      | 100.0%        | 12.1 | 27                          | 75.0%                     | 9                           | 25.0%               | 27                    | 75.0%          | 367             |

| Country of Birth | Population Age 13+** | Adult/Adolescent Reported HIV Diagnoses |            |      |                    |                  |                       |                  |                       |             |              |
|------------------|----------------------|---|------------|------|--------------------|------------------|-----------------------|------------------|-----------------------|-------------|--------------|
|                  |                      | No.                                     | % of Total | Rate | No. Linked to Care | % Linked to Care | No. of Late Diagnosis | % Late Diagnosis | First CD4 Test Result |             |              |
|                  |                      |   |            |      |                    |                  |                       |                  | No. with Test         | % with Test | Median Count |
| United States    | 270,692              | 31                                      | 86.1%      | 11.5 | 23                 | 74.2%            | 8                     | 25.8%            | 24                    | 77.4%       | 359          |
| Foreign-born     | 15,650               | 2                                       | 5.6%       | 12.8 | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Africa           | --                   | 1                                       | 2.8%       | --   | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Asia             | --                   | 1                                       | 2.8%       | --   | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Caribbean        | --                   | 0                                       | 0.0%       | --   | --                 | --               | --                    | --               | --                    | --          | --           |
| Central America  | --                   | 0                                       | 0.0%       | --   | --                 | --               | --                    | --               | --                    | --          | --           |
| Other            | --                   | 0                                       | 0.0%       | --   | --                 | --               | --                    | --               | --                    | --          | --           |
| Unknown          | --                   | 3                                       | 8.3%       | --   | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| TOTAL            | 286,341              | 36                                      | 100.0%     | 12.6 | 27                 | 75.0%            | 9                     | 25.0%            | 27                    | 75.0%       | 367          |

\* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

\*\* Population data by country of birth are from the 2014 American Community Survey

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**First CD4 Test Result:** First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

**Median Count (First CD4):** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Number Linked to Care:** Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

**Percent Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Number of Late HIV diagnosis (for HIV diagnoses):** Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

**Percent Late HIV Diagnosis (for HIV diagnoses):** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**Table 12 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Sex at Birth, Race/Ethnicity and Country of Birth, Reported through 6/30/2016**

| SEX AT BIRTH | POPULATION AGE 13+* | ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES |            |      |                               |                      |
|--------------|---------------------|--|------------|------|-------------------------------|----------------------|
|              |                     | No.                                      | % of Total | Rate | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| Male         | 144,624             | 10                                       | 58.8%      | 6.9  | 1.5                           | 70.0%                |
| Female       | 152,817             | 7  | 41.2%      | 4.6  | 8.4                           | 28.6%                |
| TOTAL        | 297,441             | 17                                       | 100.0%     | 5.7  | 4.3                           | 52.9%                |

| RACE/ETHNICITY                               | POPULATION AGE 13+* | ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES |            |      |                               |                      |
|--|---------------------|--|------------|------|-------------------------------|----------------------|
|  |                     | No.                                      | % of Total | Rate | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| Hispanic                                     | 12,816              | 1  | 5.9%       | 7.8  | ***                           | ***                  |
| Non-Hispanic                                 | 284,624             | 16                                       | 94.1%      | 5.6  | 4.6                           | 50.0%                |
| American Indian/Alaska Native, only          | 1,373               | 0  | 0.0%       | 0.0  | --                            | --                   |
| Asian, only                                  | 8,146               | 0  | 0.0%       | 0.0  | --                            | --                   |
| Black, only                                  | 78,977              | 13                                       | 76.5%      | 16.5 | 4.7                           | 53.8%                |
| Native Hawaiian/Other Pacific Islander, only | 248                 | 0  | 0.0%       | 0.0  | --                            | --                   |
| White, only                                  | 189,132             | 3  | 17.6%      | 1.6  | ***                           | ***                  |
| Multiracial/Other                            | 6,748               | 0  | 0.0%       | 0.0  | --                            | --                   |
| TOTAL  | 297,441             | 17                                       | 100.0%     | 5.7  | 4.3                           | 52.9%                |

| COUNTY OF BIRTH | POPULATION AGE 13+** | ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES |            |      |                               |                      |
|-----------------|----------------------|--|------------|------|-------------------------------|----------------------|
|                 |                      | No.                                      | % of Total | Rate | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| United States   | 270,692              | 16                                       | 94.1%      | 5.9  | 4.6                           | 50.0%                |
| Foreign-born    | 15,650               | 0  | 0.0%       | 0.0  | --                            | --                   |
| Africa          | --                   | 0  | 0.0%       | --   | --                            | --                   |
| Asia            | --                   | 0  | 0.0%       | --   | --                            | --                   |
| Caribbean       | --                   | 0  | 0.0%       | --   | --                            | --                   |
| Central America | --                   | 0  | 0.0%       | --   | --                            | --                   |
| Other           | --                   | 0  | 0.0%       | --   | --                            | --                   |
| Unknown         | --                   | 1  | 5.9%       | --   | 0.0                           | 100.0%               |
| TOTAL           | 286,341              | 17                                       | 100.0%     | 5.9  | 4.3                           | 52.9%                |

\* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

\*\* Population data by country of birth are from the 2014 American Community Survey

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Reported AIDS Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Mean Years from HIV Diagnosis (to AIDS Diagnosis):** Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

**Percent Late HIV Diagnosis (for AIDS diagnoses):** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.



**Table 13 – Adult/Adolescent Living HIV Cases with and without AIDS by Sex at Birth, Race/Ethnicity, and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016**

| SEX AT BIRTH | POPULATION AGE 13+ | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS |        |       | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS |        |       | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |        |       | Ratio (1 in X) |
|--------------|--------------------|--|--------|-------|---|--------|-------|---|--------|-------|----------------|
|              |                    | No.  | %      | Rate  | No.   | %      | Rate  | No.                                     | %      | Rate  |                |
| Male         | 144,624            | 214  | 61.8%  | 148.0 | 197   | 65.0%  | 136.2 | 411                                     | 63.3%  | 284.2 | 351            |
| Female       | 152,817            | 132  | 38.2%  | 86.4  | 106   | 35.0%  | 69.4  | 238                                     | 36.7%  | 155.7 | 642            |
| TOTAL        | 297,441            | 346  | 100.0% | 116.3 | 303   | 100.0% | 101.9 | 649                                     | 100.0% | 218.2 | 458            |

| RACE/ETHNICITY                               | POPULATION AGE 13+* | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS |        |       | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS |        |       | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |        |       | Ratio (1 in X) |
|--|---------------------|--|--------|-------|---|--------|-------|---|--------|-------|----------------|
|  |                     | No.  | %      | Rate  | No.   | %      | Rate  | No.                                     | %      | Rate  |                |
| Hispanic                                     | 12,816              | 10   | 2.9%   | 78.0  | 12  | 4.0%   | 93.6  | 22                                      | 3.4%   | 171.7 | 582            |
| Non-Hispanic                                 | 284,624             | 336  | 97.1%  | 118.1 | 291   | 96.0%  | 102.2 | 627                                     | 96.6%  | 220.3 | 453            |
| American Indian/Alaska Native, only          | 1,373               | 0  | 0.0%   | 0.0   | 0   | 0.0%   | 0.0   | 0                                       | 0.0%   | 0.0   | --             |
| Asian, only                                  | 8,146               | 3  | 0.9%   | 36.8  | 1   | 0.3%   | 12.3  | 4                                       | 0.6%   | 49.1  | 2,036          |
| Black, only                                  | 78,977              | 244  | 70.5%  | 308.9 | 205   | 67.7%  | 259.6 | 449                                     | 69.2%  | 568.5 | 175            |
| Native Hawaiian/Other Pacific Islander, only | 248                 | 0  | 0.0%   | 0.0   | 0   | 0.0%   | 0.0   | 0                                       | 0.0%   | 0.0   | --             |
| White, only                                  | 189,132             | 85   | 24.6%  | 44.9  | 72  | 23.8%  | 38.1  | 157                                     | 24.2%  | 83.0  | 1,204          |
| Multiracial/Other                            | 6,748               | 4  | 1.2%   | 59.3  | 13  | 4.3%   | 192.7 | 17                                      | 2.6%   | 251.9 | 396            |
| TOTAL  | 297,441             | 346  | 100.0% | 116.3 | 303   | 100.0% | 101.9 | 649                                     | 100.0% | 218.2 | 458            |

| COUNTRY OF BIRTH | POPULATION AGE 13+** | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS |        |       | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS |        |       | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |        |       | Ratio (1 in X) |
|------------------|----------------------|--|--------|-------|---|--------|-------|---|--------|-------|----------------|
|                  |                      | No.  | %      | Rate  | No.   | %      | Rate  | No.                                     | %      | Rate  |                |
| United States    | 270,692              | 311  | 89.9%  | 114.9 | 288   | 95.0%  | 106.4 | 599                                     | 92.3%  | 221.3 | 451            |
| Foreign-born     | 15,650               | 12   | 3.5%   | 76.7  | 10  | 3.3%   | 63.9  | 22                                      | 3.4%   | 140.6 | 711            |
| Africa           | --                   | 4  | 1.2%   | --    | 4   | 1.3%   | --    | 8                                       | 1.2%   | --    | --             |
| Asia             | --                   | 2  | 0.6%   | --    | 0   | 0.0%   | --    | 2                                       | 0.3%   | --    | --             |
| Caribbean        | --                   | 1  | 0.3%   | --    | 1   | 0.3%   | --    | 2                                       | 0.3%   | --    | --             |
| Central America  | --                   | 2  | 0.6%   | --    | 4   | 1.3%   | --    | 6                                       | 0.9%   | --    | --             |
| Other            | --                   | 3  | 0.9%   | --    | 1   | 0.3%   | --    | 4                                       | 0.6%   | --    | --             |
| Unknown          | --                   | 23   | 6.6%   | --    | 5   | 1.7%   | --    | 28                                      | 4.3%   | --    | --             |
| TOTAL            | 286,341              | 346  | 100.0% | 120.8 | 303   | 100.0% | 105.8 | 649                                     | 100.0% | 226.7 | 441            |

\* Population data by sex at birth, age, and race/ethnicity are from the 2015 U.S. Census population estimates

\*\* Population data by country of birth are from the 2014 American Community Survey

**Population Age 13+:** Population greater than or equal to 13 years old, estimate for 7/1/2015.

**Adult/Adolescent Living HIV Cases without AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Living HIV Cases with AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 14 –Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016**

| SEX AT BIRTH | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                        |             |              |       |         |         |       |
|--------------|---|------------------------|-------------|--------------|-------|---------|---------|-------|
|              | No.                                     | Recent CD4 Test Result |             |              |       |         |         |       |
|              |   | No. with Test          | % with Test | Median Count | <200  | 200-349 | 350-499 | 500+  |
| Male         | 411                                     | 253                    | 61.6%       | 587          | 9.9%  | 13.0%   | 19.0%   | 58.1% |
| Female       | 238                                     | 155                    | 65.1%       | 616          | 10.3% | 11.0%   | 16.1%   | 62.6% |
| TOTAL        | 649                                     | 408                    | 62.9%       | 592          | 10.0% | 12.3%   | 17.9%   | 59.8% |

| RACE/ETHNICITY                               | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                        |             |              |       |         |         |       |
|--|---|------------------------|-------------|--------------|-------|---------|---------|-------|
|  | No.                                     | Recent CD4 Test Result |             |              |       |         |         |       |
|  |   | No. with Test          | % with Test | Median Count | <200  | 200-349 | 350-499 | 500+  |
| Hispanic                                     | 22                                      | 11                     | 50.0%       | 490          | 9.1%  | 27.3%   | 18.2%   | 45.5% |
| Non-Hispanic                                 | 627                                     | 397                    | 63.3%       | 603          | 10.1% | 11.8%   | 17.9%   | 60.2% |
| American Indian/Alaska Native, only          | 0                                       | --                     | --          | --           | --    | --      | --      | --    |
| Asian, only                                  | 4                                       | ***                    | ***         | ***          | ***   | ***     | ***     | ***   |
| Black, only                                  | 449                                     | 285                    | 63.5%       | 605          | 11.2% | 10.5%   | 17.5%   | 60.7% |
| Native Hawaiian/Other Pacific Islander, only | 0                                       | --                     | --          | --           | --    | --      | --      | --    |
| White, only                                  | 157                                     | 94                     | 59.9%       | 626          | 8.5%  | 12.8%   | 17.0%   | 61.7% |
| Multiracial/Other                            | 17                                      | ***                    | ***         | ***          | ***   | ***     | ***     | ***   |
| TOTAL  | 649                                     | 408                    | 62.9%       | 592          | 10.0% | 12.3%   | 17.9%   | 59.8% |

| COUNTRY OF BIRTH | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                        |             |              |       |         |         |       |
|------------------|---|------------------------|-------------|--------------|-------|---------|---------|-------|
|                  | No.                                     | Recent CD4 Test Result |             |              |       |         |         |       |
|                  |   | No. with Test          | % with Test | Median Count | <200  | 200-349 | 350-499 | 500+  |
| United States    | 599                                     | 386                    | 64.4%       | 592          | 10.4% | 12.2%   | 17.9%   | 59.6% |
| Foreign-born     | 22                                      | 9                      | 40.9%       | 574          | 11.1% | 0.0%    | 33.3%   | 55.6% |
| Africa           | 8                                       | ***                    | ***         | ***          | ***   | ***     | ***     | ***   |
| Asia             | 2                                       | ***                    | ***         | ***          | ***   | ***     | ***     | ***   |
| Caribbean        | 2                                       | ***                    | ***         | ***          | ***   | ***     | ***     | ***   |
| Central America  | 6                                       | ***                    | ***         | ***          | ***   | ***     | ***     | ***   |
| Other            | 4                                       | ***                    | ***         | ***          | ***   | ***     | ***     | ***   |
| Unknown          | 28                                      | 13                     | 46.4%       | 639          | 0.0%  | 23.1%   | 7.7%    | 69.2% |
| TOTAL            | 649                                     | 408                    | 62.9%       | 592          | 10.0% | 12.3%   | 17.9%   | 59.8% |

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

**Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

**Table 15 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results, by Sex at Birth, Race/Ethnicity and Country of Birth, Alive on 12/31/2015 and Reported through 6/30/2016**

| ADULT/ADOLESCENT TOTAL LIVING HIV CASES |     |                               |             |              |                     |
|---|-----|-------------------------------|-------------|--------------|---------------------|
| SEX AT BIRTH                            | No. | Recent Viral Load Test Result |             |              |                     |
|   |     | No. with Test                 | % with Test | % Suppressed | Median Unsuppressed |
| Male                                    | 411 | 253                           | 61.6%       | 79.4%        | 15,852              |
| Female                                  | 238 | 158                           | 66.4%       | 76.6%        | 19,530              |
| TOTAL                                   | 649 | 411                           | 63.3%       | 78.3%        | 17,250              |

| ADULT/ADOLESCENT TOTAL LIVING HIV CASES      |     |                               |             |              |                     |
|--|-----|-------------------------------|-------------|--------------|---------------------|
| RACE/ETHNICITY                               | No. | Recent Viral Load Test Result |             |              |                     |
|  |     | No. with Test                 | % with Test | % Suppressed | Median Unsuppressed |
| Hispanic                                     | 22  | 11                            | 50.0%       | 63.6%        | 2,435               |
| Non-Hispanic                                 | 627 | 400                           | 63.8%       | 78.8%        | 18,380              |
| American Indian/Alaska Native, only          | 0   | --                            | --          | --           | --                  |
| Asian, only                                  | 4   | ***                           | ***         | ***          | ***                 |
| Black, only                                  | 449 | 286                           | 63.7%       | 76.9%        | 22,215              |
| Native Hawaiian/Other Pacific Islander, only | 0   | --                            | --          | --           | --                  |
| White, only                                  | 157 | 96                            | 61.1%       | 82.3%        | 10,370              |
| Multiracial/Other                            | 17  | ***                           | ***         | ***          | ***                 |
| TOTAL  | 649 | 411                           | 63.3%       | 78.3%        | 17,250              |

| ADULT/ADOLESCENT TOTAL LIVING HIV CASES |     |                               |             |              |                     |
|---|-----|-------------------------------|-------------|--------------|---------------------|
| COUNTRY OF BIRTH                        | No. | Recent Viral Load Test Result |             |              |                     |
|   |     | No. with Test                 | % with Test | % Suppressed | Median Unsuppressed |
| United States                           | 599 | 386                           | 64.4%       | 78.0%        | 17,250              |
| Foreign-born                            | 22  | 11                            | 50.0%       | 72.7%        | 3,120               |
| Africa                                  | 8   | 6                             | 75.0%       | 83.3%        | 2,840               |
| Asia                                    | 2   | ***                           | ***         | ***          | ***                 |
| Caribbean                               | 2   | ***                           | ***         | ***          | ***                 |
| Central America                         | 6   | ***                           | ***         | ***          | ***                 |
| Other                                   | 4   | ***                           | ***         | ***          | ***                 |
| Unknown                                 | 28  | 14                            | 50.0%       | 92.9%        | 18,380              |
| TOTAL                                   | 649 | 411                           | 63.3%       | 78.3%        | 17,250              |

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

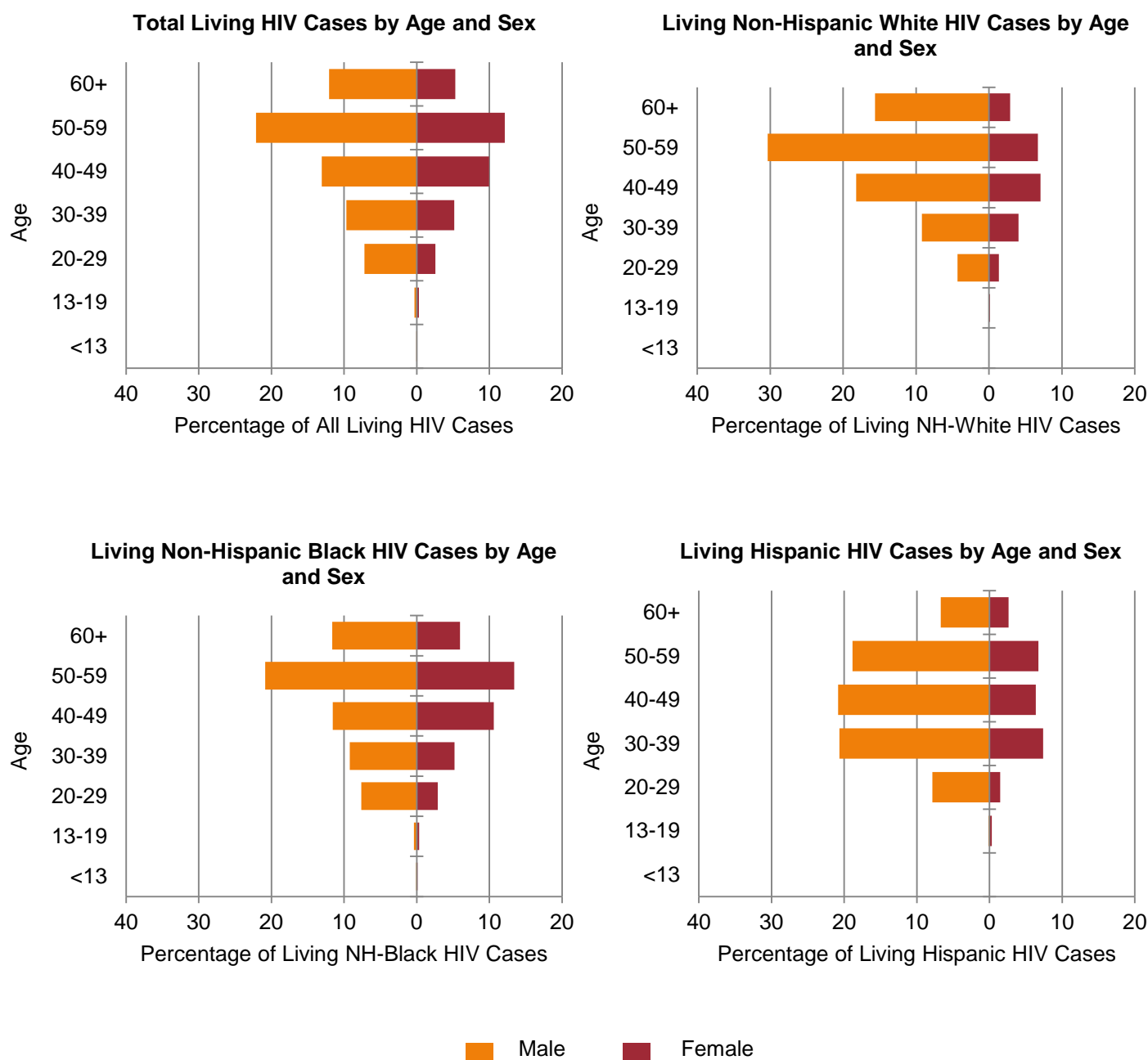
**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year, reported through 6/30/2016.

**Percent Suppressed (Viral Load):** Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

**Median Unsuppressed (Viral Load):** Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year, reported through 6/30/2016 of 200 copies per milliliter or greater.

## Section VI – HIV Cases by Expanded Demographics

**Figure 9 – Population Pyramids of Total Living HIV Cases by Current Age, Sex at Birth, and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016**



**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 16 – Total Living Male HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016**

| MALES                               |                |                |                                 |                             |                                |                             |
|-------------------------------------|----------------|----------------|---------------------------------|-----------------------------|--------------------------------|-----------------------------|
| AGE ON<br>12/31/2015                |                | RACE/ETHNICITY |                                 |                             |                                | TOTAL MALES<br>BY AGE GROUP |
|                                     |                | Hispanic       | Non-<br>Hispanic<br>Black, only | Non-Hispanic<br>White, only | Non-<br>Hispanic<br>Other Race |                             |
| <13 (Pediatric)                     | Population     | 2,214          | 8,554                           | 17,044                      | 3,051                          | 30,862                      |
|                                     | Cases          | 0              | 1                               | 0                           | 0                              | 1                           |
|                                     | Rate           | 0.0            | 11.7                            | 0.0                         | 0.0                            | 3.2                         |
|                                     | Ratio (1 in X) | --             | 8,554                           | --                          | --                             | 30,862                      |
| 13-19                               | Population     | 965            | 5,434                           | 10,267                      | 1,546                          | 18,213                      |
|                                     | Cases          | ***            | 1                               | 1                           | ***                            | 2                           |
|                                     | Rate           | ***            | 18.4                            | 9.7                         | ***                            | 11.0                        |
|                                     | Ratio (1 in X) | ***            | 5,434                           | 10,267                      | ***                            | 9,106                       |
| 20-29                               | Population     | 1,499          | 6,518                           | 14,302                      | 1,409                          | 23,728                      |
|                                     | Cases          | 1              | 72                              | 8                           | 1                              | 82                          |
|                                     | Rate           | 66.7           | 1,104.6                         | 55.9                        | 71.0                           | 345.6                       |
|                                     | Ratio (1 in X) | 1,499          | 90                              | 1,787                       | 1,409                          | 289                         |
| 30-39                               | Population     | 1,610          | 5,435                           | 13,266                      | 1,196                          | 21,507                      |
|                                     | Cases          | 4              | 50                              | 24                          | 7                              | 85                          |
|                                     | Rate           | 248.4          | 920.0                           | 180.9                       | 585.3                          | 395.2                       |
|                                     | Ratio (1 in X) | 402            | 108                             | 552                         | 170                            | 253                         |
| 40-49                               | Population     | 1,078          | 7,236                           | 14,947                      | 1,118                          | 24,379                      |
|                                     | Cases          | 8              | 68                              | 17                          | 4                              | 97                          |
|                                     | Rate           | 742.1          | 939.7                           | 113.7                       | 357.8                          | 397.9                       |
|                                     | Ratio (1 in X) | 134            | 106                             | 879                         | 279                            | 251                         |
| 50-59                               | Population     | 754            | 6,713                           | 19,163                      | 997                            | 27,627                      |
|                                     | Cases          | ***            | 59                              | 47                          | ***                            | 108                         |
|                                     | Rate           | ***            | 878.9                           | 245.3                       | ***                            | 390.9                       |
|                                     | Ratio (1 in X) | ***            | 113                             | 407                         | ***                            | 255                         |
| 60+                                 | Population     | 506            | 5,584                           | 22,098                      | 982                            | 29,170                      |
|                                     | Cases          | ***            | 21                              | 17                          | ***                            | 39                          |
|                                     | Rate           | ***            | 376.1                           | 76.9                        | ***                            | 133.7                       |
|                                     | Ratio (1 in X) | ***            | 265                             | 1,299                       | ***                            | 747                         |
| TOTAL MALES<br>BY<br>RACE/ETHNICITY | Population     | 8,626          | 45,474                          | 111,087                     | 10,299                         | 175,486                     |
|                                     | Cases          | 16             | 272                             | 114                         | 12                             | 414                         |
|                                     | Rate           | 185.5          | 598.1                           | 102.6                       | 116.5                          | 235.9                       |
|                                     | Ratio (1 in X) | 539            | 167                             | 974                         | 858                            | 423                         |

\*\*\* Data withheld due to low population and/or case counts

**Age on [date]:** Age group of living cases on the specified date.

**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Population:** Population estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Table 17 – Total Living Female HIV Cases by Current Age and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016**

| FEMALES                               |                |                |                                 |                             |                                |                               |
|---------------------------------------|----------------|----------------|---------------------------------|-----------------------------|--------------------------------|-------------------------------|
| AGE ON<br>12/31/2015                  |                | RACE/ETHNICITY |                                 |                             |                                | TOTAL FEMALES<br>BY AGE GROUP |
|                                       |                | Hispanic       | Non-<br>Hispanic<br>Black, only | Non-Hispanic<br>White, only | Non-<br>Hispanic<br>Other Race |                               |
| <13 (Pediatric)                       | Population     | 2,292          | 8,422                           | 16,209                      | 2,900                          | 29,823                        |
|                                       | Cases          | 0              | 1                               | 0                           | 0                              | 1                             |
|                                       | Rate           | 0.0            | 11.9                            | 0.0                         | 0.0                            | 3.4                           |
|                                       | Ratio (1 in X) | --             | 8,422                           | --                          | --                             | 29,823                        |
| 13-19                                 | Population     | 1,006          | 5,386                           | 9,729                       | 1,513                          | 17,634                        |
|                                       | Cases          | 0              | 3                               | 0                           | 0                              | 3                             |
|                                       | Rate           | 0.0            | 55.7                            | 0.0                         | 0.0                            | 17.0                          |
|                                       | Ratio (1 in X) | --             | 1,795                           | --                          | --                             | 5,878                         |
| 20-29                                 | Population     | 1,382          | 6,479                           | 13,284                      | 1,581                          | 22,726                        |
|                                       | Cases          | 2              | 20                              | 6                           | 1                              | 29                            |
|                                       | Rate           | 144.7          | 308.7                           | 45.2                        | 63.3                           | 127.6                         |
|                                       | Ratio (1 in X) | 691            | 323                             | 2,214                       | 1,581                          | 783                           |
| 30-39                                 | Population     | 1,494          | 6,563                           | 13,170                      | 1,606                          | 22,833                        |
|                                       | Cases          | 0              | 27                              | 6                           | 1                              | 34                            |
|                                       | Rate           | 0.0            | 411.4                           | 45.6                        | 62.3                           | 148.9                         |
|                                       | Ratio (1 in X) | --             | 243                             | 2,195                       | 1,606                          | 671                           |
| 40-49                                 | Population     | 1,100          | 8,652                           | 15,541                      | 1,671                          | 26,964                        |
|                                       | Cases          | 2              | 56                              | 13                          | 3                              | 74                            |
|                                       | Rate           | 181.8          | 647.2                           | 83.6                        | 179.5                          | 274.4                         |
|                                       | Ratio (1 in X) | 550            | 154                             | 1,195                       | 557                            | 364                           |
| 50-59                                 | Population     | 788            | 7,458                           | 18,783                      | 1,429                          | 28,458                        |
|                                       | Cases          | ***            | 52                              | 13                          | ***                            | 70                            |
|                                       | Rate           | ***            | 697.2                           | 69.2                        | ***                            | 246.0                         |
|                                       | Ratio (1 in X) | ***            | 143                             | 1,444                       | ***                            | 406                           |
| 60+                                   | Population     | 634            | 7,519                           | 24,582                      | 1,467                          | 34,202                        |
|                                       | Cases          | ***            | 24                              | 6                           | ***                            | 31                            |
|                                       | Rate           | ***            | 319.2                           | 24.4                        | ***                            | 90.6                          |
|                                       | Ratio (1 in X) | ***            | 313                             | 4,097                       | ***                            | 1,103                         |
| TOTAL FEMALES<br>BY<br>RACE/ETHNICITY | Population     | 8,696          | 50,479                          | 111,298                     | 12,167                         | 182,640                       |
|                                       | Cases          | 6              | 183                             | 44                          | 9                              | 242                           |
|                                       | Rate           | 69.0           | 362.5                           | 39.5                        | 74.0                           | 132.5                         |
|                                       | Ratio (1 in X) | 1,449          | 275                             | 2,529                       | 1,351                          | 754                           |

\*\*\* Data withheld due to low population and/or case counts

**Age on [date]:** Age group of living cases on the specified date.

**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Population:** Population estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

## Section VII – HIV Exposure Category

**Table 18 – Adult/Adolescent HIV Diagnoses during 2015, First CD4 Test Result, Percent Linked to Care, and Percent Late Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016**

| EXPOSURE CATEGORY                                    | ADULT/ADOLESCENT HIV DIAGNOSES |                          |                    |                  |                       |                  | First CD4 Test Result |             |              |
|--|--------------------------------|--------------------------|--------------------|------------------|-----------------------|------------------|-----------------------|-------------|--------------|
|  | No.                            | % of Total with Exposure | No. Linked to Care | % Linked to Care | No. of Late Diagnoses | % Late Diagnosis | No. with Test         | % with Test | Median Count |
|  |                                |                          |                    |                  |                       |                  |                       |             |              |
| <b>With Exposure**</b>                               | 18                             | 100.0%                   | 14                 | 77.8%            | ***                   | ***              | 15                    | 83.3%       | 441          |
| Men who have Sex with Men (MSM)                      | 13                             | 72.2%                    | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Injection Drug Users (IDU)                           | 0                              | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 0                              | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| Heterosexual Exposure (HET)                          | 5                              | 27.8%                    | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Other Exposure                                       | 0                              | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| <b>No Reported Exposure*</b>                         | 18                             |                          | 13                 | 72.2%            | 5                     | 27.8%            | 12                    | 66.7%       | 345          |
| <b>TOTAL</b>   | 36                             |                          | 27                 | 75.0%            | 9                     | 25.0%            | 27                    | 75.0%       | 367          |

| MALE EXPOSURE CATEGORY                               | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |                          |                    |                  |                       |                  | First CD4 Test Result |             |              |
|--|---|--------------------------|--------------------|------------------|-----------------------|------------------|-----------------------|-------------|--------------|
|  | No.                                     | % of Total with Exposure | No. Linked to Care | % Linked to Care | No. of Late Diagnoses | % Late Diagnosis | No. with Test         | % with Test | Median Count |
|  |   |                          |                    |                  |                       |                  |                       |             |              |
| <b>With Exposure**</b>                               | 14                                      | 100.0%                   | 11                 | 78.6%            | ***                   | ***              | 12                    | 85.7%       | 449          |
| Men who have Sex with Men (MSM)                      | ***                                     | ***                      | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Injection Drug Users (IDU)                           | 0                                       | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 0                                       | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| Heterosexual Exposure (HET)                          | ***                                     | ***                      | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Other Exposure                                       | 0                                       | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| <b>No Reported Exposure</b>                          | 11                                      |                          | 7                  | 63.6%            | 4                     | 36.4%            | 7                     | 63.6%       | 367          |
| <b>TOTAL</b>   | 25                                      |                          | 18                 | 72.0%            | 6                     | 24.0%            | 19                    | 76.0%       | 425          |

| FEMALE EXPOSURE CATEGORY     | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |                          |                    |                  |                       |                  | First CD4 Test Result |             |              |
|------------------------------|---|--------------------------|--------------------|------------------|-----------------------|------------------|-----------------------|-------------|--------------|
|                              | No.                                     | % of Total with Exposure | No. Linked to Care | % Linked to Care | No. of Late Diagnoses | % Late Diagnosis | No. with Test         | % with Test | Median Count |
|                              |   |                          |                    |                  |                       |                  |                       |             |              |
| <b>With Exposure**</b>       | ***                                     | ***                      | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Injection Drug Users (IDU)   | 0                                       | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| Heterosexual Exposure (HET)  | ***                                     | ***                      | ***                | ***              | ***                   | ***              | ***                   | ***         | ***          |
| Other Exposure               | 0                                       | 0.0%                     | --                 | --               | --                    | --               | --                    | --          | --           |
| <b>No Reported Exposure*</b> | 7                                       |                          | 6                  | 85.7%            | 1                     | 14.3%            | 5                     | 71.4%       | 337          |
| <b>TOTAL</b>                 | 11                                      |                          | 9                  | 81.8%            | 3                     | 27.3%            | 8                     | 72.7%       | 325          |

\* Includes 1 new HIV diagnosis with Presumed Female Heterosexual exposure

\*\* 2015 reported HIV exposure data are preliminary.

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.



**First CD4 Test Result:** First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

**Median Count (First CD4):** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Number Linked to Care:** Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

**Percent Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Number of Late HIV diagnosis (for HIV diagnoses):** Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

**Percent Late HIV Diagnosis (for HIV diagnoses):** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**Table 19 – Adult/Adolescent AIDS Diagnoses during 2015, Mean Years from HIV Diagnosis and Percent Late HIV Diagnosis, by Exposure Category and Sex at Birth, Reported through 6/30/2016**

| EXPOSURE CATEGORY                                    | ADULT/ADOLESCENT AIDS DIAGNOSES |                          |                               |                      |
|--|---------------------------------|--------------------------|-------------------------------|----------------------|
|  | No.                             | % of Total with Exposure | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| <b>With Exposure**</b>                               | 11                              | 100.0%                   | 5.6                           | 36.4%                |
| Men who have Sex with Men (MSM)                      | 5                               | 45.5%                    | 2.8                           | 40.0%                |
| Injection Drug Users (IDU)                           | 0                               | 0.0%                     | --                            | --                   |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 0                               | 0.0%                     | --                            | --                   |
| Heterosexual Exposure (HET)                          | 6                               | 54.5%                    | 8.0                           | 33.3%                |
| Other Exposures                                      | 0                               | 0.0%                     | --                            | --                   |
| <b>No Reported Exposure*</b>                         | 6                               |                          | 1.9                           | 83.3%                |
| <b>TOTAL</b>   | 17                              |                          | 4.3                           | 52.9%                |

| MALE EXPOSURE CATEGORY                               | ADULT/ADOLESCENT AIDS DIAGNOSES |                          |                               |                      |
|--|---------------------------------|--------------------------|-------------------------------|----------------------|
|  | No.                             | % of Total with Exposure | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| <b>With Exposure**</b>                               | 6                               | 100.0%                   | 2.4                           | 50.0%                |
| Men who have Sex with Men (MSM)                      | ***                             | ***                      | ***                           | ***                  |
| Injection Drug Users (IDU)                           | 0                               | 0.0%                     | --                            | --                   |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 0                               | 0.0%                     | --                            | --                   |
| Heterosexual Exposure (HET)                          | ***                             | ***                      | ***                           | ***                  |
| Other Exposures                                      | 0                               | 0.0%                     | --                            | --                   |
| <b>No Reported Exposure</b>                          | 4                               |                          | 0.1                           | 100.0%               |
| <b>TOTAL</b>   | 10                              |                          | 1.5                           | 70.0%                |

| FEMALE EXPOSURE CATEGORY     | ADULT/ADOLESCENT AIDS DIAGNOSES |                          |                               |                      |
|------------------------------|---------------------------------|--------------------------|-------------------------------|----------------------|
|                              | No.                             | % of Total with Exposure | Mean Years from HIV Diagnosis | % Late HIV Diagnosis |
| <b>With Exposure**</b>       | 5                               | 100.0%                   | 9.5                           | 20.0%                |
| Injection Drug Users (IDU)   | 0                               | 0.0%                     | --                            | --                   |
| Heterosexual Exposure (HET)  | 5                               | 100.0%                   | 9.5                           | 20.0%                |
| Other Exposures              | 0                               | 0.0%                     | --                            | --                   |
| <b>No Reported Exposure*</b> | 2                               |                          | 5.5                           | 50.0%                |
| <b>TOTAL</b>                 | 7                               |                          | 8.4                           | 28.6%                |

\* Includes 1 new AIDS diagnosis with Presumed Female Heterosexual exposure

\*\* 2015 reported HIV exposure data are preliminary.

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Reported AIDS Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

**Mean Years from HIV Diagnosis (to AIDS Diagnosis):** Mean number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

**Percent Late HIV Diagnosis (for AIDS diagnoses):** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

**Table 20 – Adult/Adolescent Living HIV Cases with and without AIDS by Exposure Category and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016**

| EXPOSURE CATEGORY                                    | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS |                          | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS |                          | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                          |
|--|--|--------------------------|---|--------------------------|---|--------------------------|
|  | No.  | % of Total with Exposure | No.   | % of Total with Exposure | No.                                     | % of Total with Exposure |
| <b>With Exposure</b>                                 | 204  | 100.0%                   | 248   | 100.0%                   | 452                                     | 100.0%                   |
| Men who have Sex with Men (MSM)                      | 112  | 54.9%                    | 101   | 40.7%                    | 213                                     | 47.1%                    |
| Injection Drug Users (IDU)                           | 12   | 5.9%                     | 24  | 9.7%                     | 36                                      | 8.0%                     |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | ***  | ***                      | 5   | 2.0%                     | 9                                       | 2.0%                     |
| Heterosexual Exposure (HET)                          | 75   | 36.8%                    | 117   | 47.2%                    | 192                                     | 42.5%                    |
| Other Exposures                                      | ***  | ***                      | 1   | 0.4%                     | 2                                       | 0.4%                     |
| <b>No Reported Exposure*</b>                         | 142  |                          | 55  |                          | 197                                     |                          |
| <b>TOTAL</b>   | 346  |                          | 303   |                          | 649                                     |                          |

| MALE EXPOSURE CATEGORY                               | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS |                          | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS |                          | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                          |
|--|--|--------------------------|---|--------------------------|---|--------------------------|
|  | No.  | % of Total with Exposure | No.   | % of Total with Exposure | No.                                     | % of Total with Exposure |
| <b>With Exposure</b>                                 | 143  | 100.0%                   | 165   | 100.0%                   | 308                                     | 100.0%                   |
| Men who have Sex with Men (MSM)                      | 112  | 78.3%                    | 101   | 61.2%                    | 213                                     | 69.2%                    |
| Injection Drug Users (IDU)                           | 6  | 4.2%                     | 14  | 8.5%                     | 20                                      | 6.5%                     |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | ***  | ***                      | 5   | 3.0%                     | 9                                       | 2.9%                     |
| Heterosexual Exposure (HET)                          | 20   | 14.0%                    | 45  | 27.3%                    | 65                                      | 21.1%                    |
| Other Exposures                                      | ***  | ***                      | 0   | 0.0%                     | 1                                       | 0.3%                     |
| <b>No Reported Exposure</b>                          | 71   |                          | 32  |                          | 103                                     |                          |
| <b>TOTAL</b>   | 214  |                          | 197   |                          | 411                                     |                          |

| FEMALE EXPOSURE CATEGORY     | ADULT/ADOLESCENT LIVING HIV CASES WITHOUT AIDS |                          | ADULT/ADOLESCENT LIVING HIV CASES WITH AIDS |                          | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                          |
|------------------------------|--|--------------------------|---|--------------------------|---|--------------------------|
|                              | No.  | % of Total with Exposure | No.   | % of Total with Exposure | No.                                     | % of Total with Exposure |
| <b>With Exposure</b>         | 61   | 100.0%                   | 83  | 100.0%                   | 144                                     | 100.0%                   |
| Injection Drug Users (IDU)   | 6  | 9.8%                     | 10  | 12.0%                    | 16                                      | 11.1%                    |
| Heterosexual Exposure (HET)  | 55   | 90.2%                    | 72  | 86.7%                    | 127                                     | 88.2%                    |
| Other Exposures              | 0  | 0.0%                     | 1   | 1.2%                     | 1                                       | 0.7%                     |
| <b>No Reported Exposure*</b> | 71   |                          | 23  |                          | 94                                      |                          |
| <b>TOTAL</b>                 | 132  |                          | 106   |                          | 238                                     |                          |

\* Includes 1 HIV case without AIDS and 3 HIV cases with AIDS with Presumed Female Heterosexual exposure

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Living HIV Cases without AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Living HIV Cases with AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 21 – Adult/Adolescent Total Living HIV Cases by Exposure Category, Race/Ethnicity, and Sex at Birth, Alive on 12/31/2015 and Reported through 6/30/2016**

| EXPOSURE CATEGORY                                    | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                          |                           |                          |                           |                          |
|--|---|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
|  | Race/Ethnicity                          |                          |                           |                          |                           |                          |
|  | Hispanic                                |                          | Non-Hispanic, Black, only |                          | Non-Hispanic, White, only |                          |
|  | No.                                     | % of Total with Exposure | No.                       | % of Total with Exposure | No.                       | % of Total with Exposure |
| <b>With Exposure</b>                                 | 16                                      | 100.0%                   | 303                       | 100.0%                   | 114                       | 100.0%                   |
| Men who have Sex with Men (MSM)                      | 6                                       | 37.5%                    | 135                       | 44.6%                    | 64                        | 56.1%                    |
| Injection Drug Users (IDU)                           | 0                                       | 0.0%                     | 24                        | 7.9%                     | 10                        | 8.8%                     |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | ***                                     | ***                      | ***                       | ***                      | ***                       | ***                      |
| Heterosexual Exposure (HET)                          | 9                                       | 56.3%                    | 138                       | 45.5%                    | 36                        | 31.6%                    |
| Other Exposures                                      | ***                                     | ***                      | ***                       | ***                      | ***                       | ***                      |
| <b>No Reported Exposure*</b>                         | 6                                       |                          | 146                       |                          | 43                        |                          |
| <b>TOTAL</b>   | 22                                      |                          | 449                       |                          | 157                       |                          |

| MALE EXPOSURE CATEGORY                               | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                          |                           |                          |                           |                          |
|--|---|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
|  | Race/Ethnicity                          |                          |                           |                          |                           |                          |
|  | Hispanic                                |                          | Non-Hispanic, Black, only |                          | Non-Hispanic, White, only |                          |
|  | No.                                     | % of Total with Exposure | No.                       | % of Total with Exposure | No.                       | % of Total with Exposure |
| <b>With Exposure</b>                                 | 13                                      | 100.0%                   | 198                       | 100.0%                   | 87                        | 100.0%                   |
| Men who have Sex with Men (MSM)                      | 6                                       | 46.2%                    | 135                       | 68.2%                    | 64                        | 73.6%                    |
| Injection Drug Users (IDU)                           | 0                                       | 0.0%                     | 14                        | 7.1%                     | 6                         | 6.9%                     |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | ***                                     | ***                      | ***                       | ***                      | ***                       | ***                      |
| Heterosexual Exposure (HET)                          | 6                                       | 46.2%                    | 44                        | 22.2%                    | 13                        | 14.9%                    |
| Other Exposures                                      | ***                                     | ***                      | ***                       | ***                      | ***                       | ***                      |
| <b>No Reported Exposure</b>                          | 3                                       |                          | 72                        |                          | 26                        |                          |
| <b>TOTAL</b>   | 16                                      |                          | 270                       |                          | 113                       |                          |

| FEMALE EXPOSURE CATEGORY     | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                          |                           |                          |                           |                          |
|------------------------------|---|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|
|                              | Race/Ethnicity                          |                          |                           |                          |                           |                          |
|                              | Hispanic                                |                          | Non-Hispanic, Black, only |                          | Non-Hispanic, White, only |                          |
|                              | No.                                     | % of Total with Exposure | No.                       | % of Total with Exposure | No.                       | % of Total with Exposure |
| <b>With Exposure</b>         | 3                                       | 100.0%                   | 105                       | 100.0%                   | 27                        | 100.0%                   |
| Injection Drug Users (IDU)   | 0                                       | 0.0%                     | 10                        | 9.5%                     | 4                         | 14.8%                    |
| Heterosexual Exposure (HET)  | ***                                     | ***                      | 94                        | 89.5%                    | 23                        | 85.2%                    |
| Other Exposures              | ***                                     | ***                      | 1                         | 1.0%                     | 0                         | 0.0%                     |
| <b>No Reported Exposure*</b> | 3                                       |                          | 74                        |                          | 17                        |                          |
| <b>TOTAL</b>                 | 6                                       |                          | 179                       |                          | 44                        |                          |

\* Includes 1 Hispanic case and 3 non-Hispanic black cases with Presumed Female Heterosexual exposure

\*\*\* Data withheld due to low population and/or case counts

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 22 – Adult/Adolescent Total Living HIV Cases, Recent CD4 Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016**

| EXPOSURE CATEGORY                                    | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                         |             |              |       |         |         |        |
|--|---|-------------------------|-------------|--------------|-------|---------|---------|--------|
|  | No.                                     | Recent CD4 Test Results |             |              |       |         |         |        |
|  |   | No. with Test           | % with Test | Median Count | <200  | 200-349 | 350-499 | 500+   |
| <b>With Exposure</b>                                 | 452                                     | 307                     | 67.9%       | 609          | 10.1% | 12.4%   | 17.9%   | 59.6%  |
| Men who have Sex with Men (MSM)                      | 213                                     | 133                     | 62.4%       | 624          | 9.8%  | 9.8%    | 18.8%   | 61.7%  |
| Injection Drug Users (IDU)                           | 36                                      | 19                      | 52.8%       | 414          | 10.5% | 31.6%   | 15.8%   | 42.1%  |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 9                                       | 6                       | 66.7%       | 672          | 0.0%  | 0.0%    | 16.7%   | 83.3%  |
| Heterosexual Exposure (HET)                          | 192                                     | 148                     | 77.1%       | 615          | 10.8% | 12.8%   | 17.6%   | 58.8%  |
| Other Exposures                                      | 2                                       | 1                       | 50.0%       | 511          | 0.0%  | 0.0%    | 0.0%    | 100.0% |
| <b>No Reported Exposure*</b>                         | 197                                     | 101                     | 51.3%       | 574          | 9.9%  | 11.9%   | 17.8%   | 60.4%  |
| <b>TOTAL</b>   | 649                                     | 408                     | 62.9%       | 592          | 10.0% | 12.3%   | 17.9%   | 59.8%  |

\* Includes 4 cases with Presumed Female Heterosexual exposure

**Table 23 – Adult/Adolescent Total Living HIV Cases, Recent Viral Load Test Results by Exposure Category, Alive on 12/31/2015 and Reported through 6/30/2016**

| EXPOSURE CATEGORY                                    | ADULT/ADOLESCENT TOTAL LIVING HIV CASES |                                |             |              |              |
|--|---|--------------------------------|-------------|--------------|--------------|
|  | No.                                     | Recent Viral Load Test Results |             |              |              |
|  |   | No. with Test                  | % with Test | % Suppressed | Median Count |
| <b>With Exposure</b>                                 | 452                                     | 310                            | 68.6%       | 76.5%        | 17,250       |
| Men who have Sex with Men (MSM)                      | 213                                     | 132                            | 62.0%       | 81.8%        | 27,588       |
| Injection Drug Users (IDU)                           | 36                                      | 20                             | 55.6%       | 50.0%        | 30,070       |
| Men who have Sex with Men and Inject Drugs (MSM/IDU) | 9                                       | 6                              | 66.7%       | 66.7%        | 561          |
| Heterosexual Exposure (HET)                          | 192                                     | 151                            | 78.6%       | 75.5%        | 13,779       |
| Other Exposures                                      | 2                                       | 1                              | 50.0%       | 100.0%       | --           |
| <b>No Reported Exposure*</b>                         | 197                                     | 101                            | 51.3%       | 84.2%        | 19,035       |
| <b>TOTAL</b>   | 649                                     | 411                            | 63.3%       | 78.3%        | 17,250       |

\* Includes 4 cases with Presumed Female Heterosexual exposure

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

**Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, as reported through 6/30/2016.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year, reported through 6/30/2016.

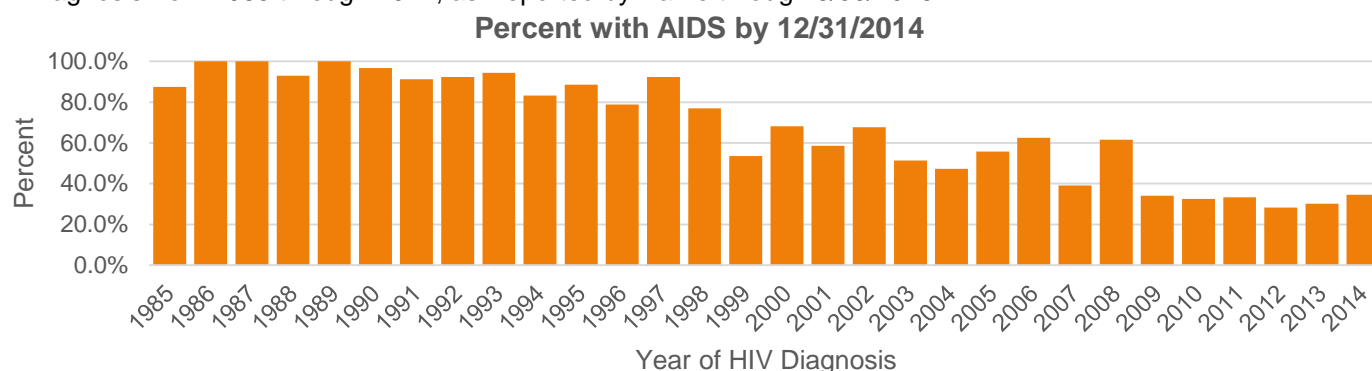
**Percent Suppressed (Viral Load):** Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter reported through 6/30/2016.

**Median Unsuppressed (Viral Load):** Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

## Section VIII – Disease Progression and Mortality

**Figure 10 – Trends in Disease Progression by Year of HIV Diagnosis, 1985-2014, Reported through 6/30/2016**

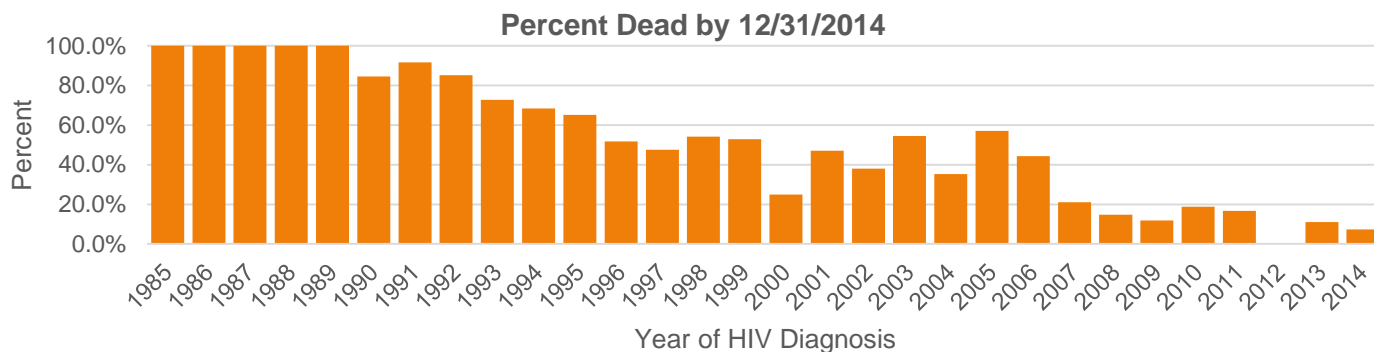
Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with or without an AIDS Diagnosis by 06/30/2014 (Adult/Adolescent Reported HIV Diagnoses), Number of Adult/Adolescent Reported HIV Cases with an AIDS Diagnosis by 12/31/2015 (Reported AIDS Diagnoses), Percent by Year of HIV Diagnosis of Adult/Adolescent Reported HIV Diagnoses with a Reported AIDS Diagnosis by 12/31/2015, the Average Years from HIV Diagnosis to AIDS Diagnosis for Cases with an AIDS Diagnosis, and the Percent by Year of HIV Diagnosis of Reported Adult/Adolescent HIV Diagnoses with a Reported AIDS Diagnosis at 1 Year, 2 Years, 5 Years, and 10 Years after HIV Diagnosis, by Year of HIV Diagnosis from 1985 through 2014, as Reported by Name through 6/30/2016



| YEAR OF HIV DIAGNOSIS | ADULT/ADOLESCENT REPORTED HIV DIAGNOSES |                         |             |                             |  |         |         |          |
|-----------------------|---|-------------------------|-------------|-----------------------------|--|---------|---------|----------|
|                       | No.                                     | Reported AIDS Diagnoses |             |                             | Percent with AIDS by Years After HIV Diagnosis |         |         |          |
|                       |   | No.                     | % with AIDS | Mean Years from HIV to AIDS | 1 Year   | 2 Years | 5 Years | 10 Years |
| <1985                 | 2                                       | 2                       | 100.0%      | 10.0                        | 50.0%  | 50.0%   | 50.0%   | 50.0%    |
| 1985                  | 8                                       | 7                       | 87.5%       | 8.4                         | 25.0%  | 25.0%   | 37.5%   | 62.5%    |
| 1986                  | 12                                      | 12                      | 100.0%      | 6.6                         | 41.7%  | 41.7%   | 50.0%   | 66.7%    |
| 1987                  | 16                                      | 16                      | 100.0%      | 6.0                         | 37.5%  | 37.5%   | 56.3%   | 81.3%    |
| 1988                  | 14                                      | 13                      | 92.9%       | 2.7                         | 57.1%  | 57.1%   | 71.4%   | 92.9%    |
| 1989                  | 21                                      | 21                      | 100.0%      | 2.2                         | 61.9%  | 61.9%   | 85.7%   | 95.2%    |
| 1990                  | 31                                      | 30                      | 96.8%       | 3.7                         | 38.7%  | 48.4%   | 71.0%   | 90.3%    |
| 1991                  | 23                                      | 21                      | 91.3%       | 2.9                         | 52.2%  | 56.5%   | 69.6%   | 87.0%    |
| 1992                  | 26                                      | 24                      | 92.3%       | 1.7                         | 65.4%  | 65.4%   | 84.6%   | 88.5%    |
| 1993                  | 18                                      | 17                      | 94.4%       | 1.5                         | 77.8%  | 83.3%   | 88.9%   | 88.9%    |
| 1994                  | 24                                      | 20                      | 83.3%       | 2.5                         | 58.3%  | 66.7%   | 66.7%   | 75.0%    |
| 1995                  | 35                                      | 31                      | 88.6%       | 3.3                         | 45.7%  | 48.6%   | 65.7%   | 80.0%    |
| 1996                  | 33                                      | 26                      | 78.8%       | 1.9                         | 51.5%  | 60.6%   | 66.7%   | 75.8%    |
| 1997                  | 26                                      | 24                      | 92.3%       | 2.6                         | 65.4%  | 65.4%   | 69.2%   | 84.6%    |
| 1998                  | 26                                      | 20                      | 76.9%       | 1.6                         | 61.5%  | 65.4%   | 65.4%   | 73.1%    |
| 1999                  | 28                                      | 15                      | 53.6%       | 2.0                         | 35.7%  | 39.3%   | 46.4%   | 50.0%    |
| 2000                  | 22                                      | 15                      | 68.2%       | 3.7                         | 27.3%  | 31.8%   | 50.0%   | 63.6%    |
| 2001                  | 29                                      | 17                      | 58.6%       | 0.9                         | 48.3%  | 48.3%   | 58.6%   | 58.6%    |
| 2002                  | 31                                      | 21                      | 67.7%       | 1.3                         | 51.6%  | 54.8%   | 64.5%   | 67.7%    |
| 2003                  | 35                                      | 18                      | 51.4%       | 1.0                         | 42.9%  | 42.9%   | 45.7%   | 51.4%    |
| 2004                  | 36                                      | 17                      | 47.2%       | 1.1                         | 38.9%  | 41.7%   | 44.4%   | 47.2%    |
| 2005                  | 43                                      | 24                      | 55.8%       | 1.3                         | 44.2%  | 44.2%   | 48.8%   | 53.5%    |
| 2006                  | 32                                      | 20                      | 62.5%       | 1.0                         | 50.0%  | 53.1%   | 56.3%   | --       |
| 2007                  | 46                                      | 18                      | 39.1%       | 1.3                         | 28.3%  | 30.4%   | 37.0%   | --       |
| 2008                  | 39                                      | 24                      | 61.5%       | 1.0                         | 48.7%  | 51.3%   | 56.4%   | --       |
| 2009                  | 41                                      | 14                      | 34.1%       | 1.6                         | 22.0%  | 22.0%   | 29.3%   | --       |
| 2010                  | 40                                      | 13                      | 32.5%       | 0.9                         | 22.5%  | 27.5%   | 32.5%   | --       |
| 2011                  | 30                                      | 10                      | 33.3%       | 0.4                         | 26.7%  | 33.3%   | --      | --       |
| 2012                  | 46                                      | 13                      | 28.3%       | 0.5                         | 23.9%  | 28.3%   | --      | --       |
| 2013                  | 43                                      | 13                      | 30.2%       | 0.3                         | 27.9%  | 27.9%   | --      | --       |
| 2014                  | 55                                      | 19                      | 34.5%       | 0.1                         | 34.5%  | --      | --      | --       |
| TOTAL                 | 911                                     | 555                     | 60.9%       | 2.1                         | 41.7%  | 44.5%   | 51.6%   | 57.8%    |

**Figure 11 – Trends in Survival Times by Year of AIDS Diagnosis, 1985-2014, Reported through 6/30/2016**

Number of Adult/Adolescent Reported HIV Cases, Age 13+ at HIV Diagnosis, with an AIDS Diagnosis by 12/31/14 (Adult/Adolescent Reported AIDS Diagnoses), Number of Adult/Adolescent Reported AIDS Diagnosis Reported to Have Died of Any Cause by 12/31/2015 (Reported AIDS Deaths), Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses with a Reported AIDS Death (Percent Dead) by 12/31/2015, the Average Years from AIDS Diagnosis to Death for Cases that have Died, and the Percent by Year of AIDS Diagnosis of Adult/Adolescent Reported AIDS Diagnoses Not Reported to Have Died (Percent Alive) at 1 Year, 2 Years, 5 Years, and 10 Years after AIDS Diagnosis, by Year of AIDS Diagnosis from 1985 through 2014, as Reported by Name through 6/30/2016



| YEAR OF HIV DIAGNOSIS | ADULT/ADOLESCENT REPORTED AIDS DIAGNOSES |                      |        |                               |   |         |         |          |
|-----------------------|--|----------------------|--------|-------------------------------|---|---------|---------|----------|
|                       | No.                                      | Reported AIDS Deaths |        |                               | Percent Alive by Years After AIDS Diagnosis |         |         |          |
|                       |  | No.                  | % Dead | Mean Years from AIDS to Death | 1 Year                                      | 2 Years | 5 Years | 10 Years |
| <1985                 | 1  | 1                    | 100.0% | 0.0                           | 0.0%  | 0.0%    | 0.0%    | 0.0%     |
| 1985                  | 1  | 1                    | 100.0% | 2.9                           | 100.0%                                      | 100.0%  | 0.0%    | 0.0%     |
| 1986                  | 5  | 5                    | 100.0% | 1.1                           | 40.0%                                       | 20.0%   | 0.0%    | 0.0%     |
| 1987                  | 6  | 6                    | 100.0% | 2.5                           | 50.0%                                       | 16.7%   | 16.7%   | 16.7%    |
| 1988                  | 8  | 8                    | 100.0% | 2.3                           | 62.5%                                       | 50.0%   | 12.5%   | 0.0%     |
| 1989                  | 14                                       | 14                   | 100.0% | 2.1                           | 85.7%                                       | 50.0%   | 0.0%    | 0.0%     |
| 1990                  | 13                                       | 11                   | 84.6%  | 3.6                           | 76.9%                                       | 61.5%   | 38.5%   | 23.1%    |
| 1991                  | 12                                       | 11                   | 91.7%  | 2.4                           | 83.3%                                       | 58.3%   | 16.7%   | 8.3%     |
| 1992                  | 27                                       | 23                   | 85.2%  | 3.0                           | 85.2%                                       | 59.3%   | 22.2%   | 22.2%    |
| 1993                  | 22                                       | 16                   | 72.7%  | 1.7                           | 72.7%                                       | 50.0%   | 31.8%   | 27.3%    |
| 1994                  | 19                                       | 13                   | 68.4%  | 3.2                           | 89.5%                                       | 52.6%   | 47.4%   | 42.1%    |
| 1995                  | 23                                       | 15                   | 65.2%  | 3.1                           | 73.9%                                       | 56.5%   | 52.2%   | 43.5%    |
| 1996                  | 29                                       | 15                   | 51.7%  | 4.9                           | 86.2%                                       | 79.3%   | 72.4%   | 58.6%    |
| 1997                  | 21                                       | 10                   | 47.6%  | 6.5                           | 81.0%                                       | 81.0%   | 81.0%   | 61.9%    |
| 1998                  | 24                                       | 13                   | 54.2%  | 6.7                           | 83.3%                                       | 83.3%   | 79.2%   | 62.5%    |
| 1999                  | 17                                       | 9                    | 52.9%  | 5.7                           | 88.2%                                       | 88.2%   | 70.6%   | 58.8%    |
| 2000                  | 16                                       | 4                    | 25.0%  | 7.8                           | 100.0%                                      | 100.0%  | 87.5%   | 81.3%    |
| 2001                  | 17                                       | 8                    | 47.1%  | 5.1                           | 88.2%                                       | 82.4%   | 70.6%   | 64.7%    |
| 2002                  | 21                                       | 8                    | 38.1%  | 2.4                           | 85.7%                                       | 81.0%   | 66.7%   | 61.9%    |
| 2003                  | 22                                       | 12                   | 54.5%  | 4.8                           | 81.8%                                       | 77.3%   | 68.2%   | 63.6%    |
| 2004                  | 17                                       | 6                    | 35.3%  | 3.0                           | 82.4%                                       | 76.5%   | 76.5%   | 64.7%    |
| 2005                  | 21                                       | 12                   | 57.1%  | 4.3                           | 81.0%                                       | 76.2%   | 66.7%   | 42.9%    |
| 2006                  | 27                                       | 12                   | 44.4%  | 2.5                           | 81.5%                                       | 81.5%   | 63.0%   | --       |
| 2007                  | 19                                       | 4                    | 21.1%  | 1.1                           | 84.2%                                       | 84.2%   | 78.9%   | --       |
| 2008                  | 27                                       | 4                    | 14.8%  | 1.7                           | 92.6%                                       | 92.6%   | 85.2%   | --       |
| 2009                  | 17                                       | 2                    | 11.8%  | 1.7                           | 94.1%                                       | 94.1%   | 88.2%   | --       |
| 2010                  | 16                                       | 3                    | 18.8%  | 0.7                           | 87.5%                                       | 81.3%   | 81.3%   | --       |
| 2011                  | 12                                       | 2                    | 16.7%  | 2.1                           | 91.7%                                       | 91.7%   | --      | --       |
| 2012                  | 20                                       | 0                    | 0.0%   | --                            | 100.0%                                      | 100.0%  | --      | --       |
| 2013                  | 18                                       | 2                    | 11.1%  | 1.1                           | 94.4%                                       | 88.9%   | --      | --       |
| 2014                  | 27                                       | 2                    | 7.4%   | 0.2                           | 92.6%                                       | --      | --      | --       |
| TOTAL                 | 539                                      | 252                  | 46.8%  | 3.4                           | 84.8%                                       | 76.3%   | 64.6%   | 58.1%    |

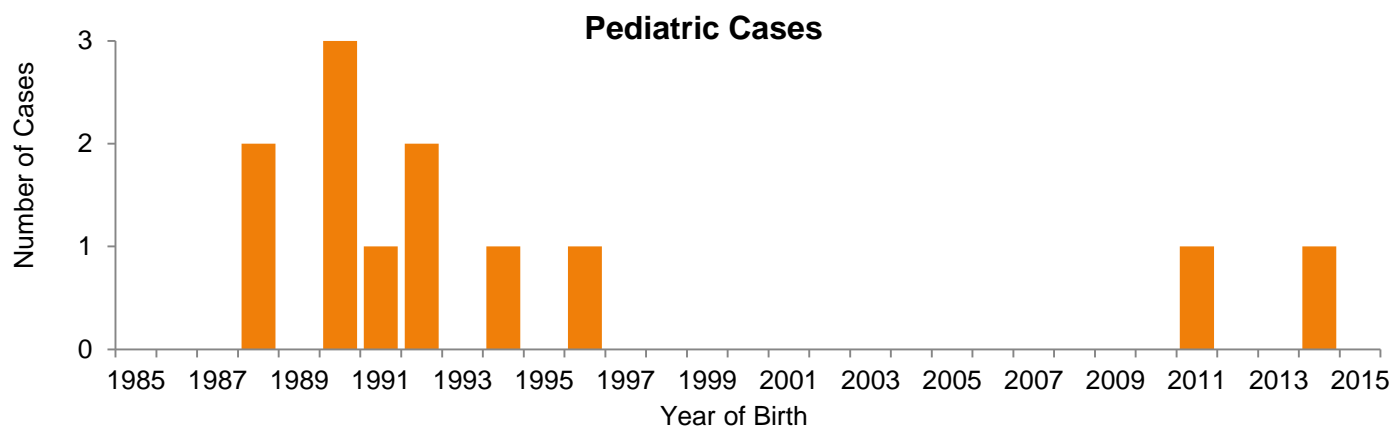
\*2014 reported AIDS deaths are preliminary.



## Section IX – Pediatric Cases

**Figure 12 – Trends in Pediatric HIV Cases, 1985-2015, Reported through 6/30/2016**

Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis (Pediatric Reported HIV Diagnoses) by Year of Birth, by Year of HIV Diagnosis, by Year of AIDS Diagnosis, and by Year of Death Due to Any Cause, and Number of Pediatric Reported HIV Cases, Age <13 at HIV Diagnosis, with or without an AIDS Diagnosis and Not Reported to have Died as of December 31<sup>st</sup> of Each Year (Pediatric Total Living HIV Cases) from 1985 through 2015, as Reported by Name through 6/30/2016



| YEAR  | PEDIATRIC REPORTED HIV DIAGNOSES |                              |                               |                      | PEDIATRIC TOTAL LIVING HIV CASES |
|-------|----------------------------------|------------------------------|-------------------------------|----------------------|----------------------------------|
|       | No. by Year of Birth             | No. by Year of HIV Diagnosis | No. by Year of AIDS Diagnosis | No. by Year of Death | No. Alive on 12/31 of Each Year  |
| <1985 | 1                                | 0                            | 0                             | 0                    |                                  |
| 1985  | 0                                | 0                            | 0                             | 0                    | 0                                |
| 1986  | 0                                | 0                            | 0                             | 0                    | 0                                |
| 1987  | 0                                | 0                            | 0                             | 0                    | 0                                |
| 1988  | 2                                | 1                            | 1                             | 0                    | 0                                |
| 1989  | 0                                | 0                            | 0                             | 0                    | 0                                |
| 1990  | 3                                | 1                            | 0                             | 0                    | 1                                |
| 1991  | 1                                | 0                            | 0                             | 0                    | 1                                |
| 1992  | 2                                | 2                            | 0                             | 0                    | 3                                |
| 1993  | 0                                | 0                            | 0                             | 0                    | 3                                |
| 1994  | 1                                | 3                            | 3                             | 0                    | 5                                |
| 1995  | 0                                | 0                            | 0                             | 1                    | 4                                |
| 1996  | 1                                | 2                            | 2                             | 1                    | 5                                |
| 1997  | 0                                | 0                            | 0                             | 0                    | 5                                |
| 1998  | 0                                | 0                            | 1                             | 0                    | 5                                |
| 1999  | 0                                | 0                            | 0                             | 1                    | 4                                |
| 2000  | 0                                | 0                            | 1                             | 0                    | 3                                |
| 2001  | 0                                | 0                            | 0                             | 1                    | 4                                |
| 2002  | 0                                | 1                            | 0                             | 0                    | 5                                |
| 2003  | 0                                | 0                            | 0                             | 0                    | 5                                |
| 2004  | 0                                | 0                            | 0                             | 0                    | 5                                |
| 2005  | 0                                | 0                            | 0                             | 0                    | 5                                |
| 2006  | 0                                | 0                            | 0                             | 0                    | 5                                |
| 2007  | 0                                | 1                            | 0                             | 0                    | 6                                |
| 2008  | 0                                | 0                            | 0                             | 0                    | 6                                |
| 2009  | 0                                | 0                            | 0                             | 0                    | 6                                |
| 2010  | 0                                | 0                            | 0                             | 1                    | 5                                |
| 2011  | 1                                | 1                            | 1                             | 0                    | 6                                |
| 2012  | 0                                | 0                            | 0                             | 0                    | 6                                |
| 2013  | 0                                | 0                            | 0                             | 1                    | 5                                |
| 2014  | 1                                | 1                            | 0                             | 0                    | 6                                |
| 2015  | 0                                | 0                            | 0                             | 0                    | 7                                |
| TOTAL | 13                               | 13                           | 9                             | 6                    |                                  |

**Table 24 – Pediatric HIV Total Living HIV Cases, Alive on 12/31/2015, by Jurisdiction, Reported through 6/30/2016**

| JURISDICTION OF RESIDENCE AT DIAGNOSIS | PEDIATRIC TOTAL LIVING HIV CASES |               |
|--|----------------------------------|---------------|
|  | No.                              | % of Total    |
| Calvert                                | 2                                | 28.6%         |
| Charles                                | 4                                | 57.1%         |
| Saint Mary's                           | 1                                | 14.3%         |
| <b>TOTAL</b>                           | <b>7</b>                         | <b>100.0%</b> |

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at time of initial HIV diagnosis for pediatric reported HIV diagnoses, and jurisdiction of residence at later of time of initial HIV diagnosis or initial AIDS diagnosis for pediatric total living HIV cases.

**Pediatric Total Living HIV Cases:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Table 25 – Pediatric Total Living HIV Cases by Sex at Birth and Race/Ethnicity, Alive on 12/31/2015 and Reported through 6/30/2016**

| SEX AT BIRTH  | PEDIATRIC TOTAL LIVING HIV CASES |               |
|---------------|----------------------------------|---------------|
|               | No.                              | % of Total    |
| <b>Male</b>   | 4                                | 57.1%         |
| <b>Female</b> | 3                                | 42.9%         |
| <b>TOTAL</b>  | <b>7</b>                         | <b>100.0%</b> |

| RACE/ETHNICITY                               | PEDIATRIC TOTAL LIVING HIV CASES |               |
|--|----------------------------------|---------------|
|  | No.                              | % of Total    |
| <b>Hispanic</b>                              | 7                                | 100.0%        |
| <b>Non-Hispanic</b>                          | 0                                | 0.0%          |
| American Indian/ Alaska Native, only         | 0                                | 0.0%          |
| Asian, only                                  | 0                                | 0.0%          |
| Black, only                                  | 6                                | 85.7%         |
| Native Hawaiian/Other Pacific Islander, only | 0                                | 0.0%          |
| White, only                                  | 1                                | 14.3%         |
| Multiracial/Other                            | 0                                | 0.0%          |
| <b>TOTAL</b>                                 | <b>7</b>                         | <b>100.0%</b> |

**Pediatric Reported HIV Diagnoses:** Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

**Pediatric Total Living HIV Cases:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

# Glossary of Terms

**Adult/Adolescent Living HIV Cases with AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Living HIV Cases without AIDS:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Adult/Adolescent Reported AIDS Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

**Adult/Adolescent Reported HIV Diagnoses:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

**Adult/Adolescent Total Living HIV Cases:** Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Age at AIDS Diagnosis:** Age group at time of initial AIDS diagnosis.

**Age at HIV Diagnosis:** Age group at time of initial HIV diagnosis.

**Age on [date]:** Age group of living cases on the specified date.

**AIDS Deaths:** Reported HIV diagnoses with an AIDS diagnosis that have died due to any cause.

**CD4 Result Distribution (<200, 200-349, 350-499, 500+):** Percent of cases with a CD4 test distributed by their CD4 count results (cells per microliter).

**Current Residence:** Jurisdiction of residence from the most recent laboratory test or case report between 1/1/2009-6/30/2016.

**First CD4 Test Result:** First reported CD4 test result obtained within 12 months following initial HIV diagnosis.

**Jurisdiction of Residence:** Jurisdiction of residence at time of initial HIV diagnosis or most recent lab test.

**Jurisdiction of Residence at AIDS Diagnosis:** Jurisdiction of residence at time of initial AIDS diagnosis.

**Jurisdiction of Residence at Diagnosis:** Jurisdiction of residence at the later of time of initial HIV diagnosis or time of initial AIDS diagnosis.

**Jurisdiction of Residence at HIV Diagnosis:** Jurisdiction of residence at time of initial HIV diagnosis.

**Living HIV Cases with AIDS:** Reported HIV diagnoses with an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Living HIV Cases without AIDS:** Reported HIV diagnoses without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Mean Years from HIV Diagnosis (to AIDS Diagnosis):** Mean or average number of years from initial HIV diagnosis to initial AIDS diagnosis for cases with a reported AIDS diagnosis.

**Mean Years from AIDS diagnosis to AIDS Death:** Mean or average number of years from initial AIDS diagnosis to death for adult/adolescent reported AIDS diagnoses with a reported death.

**Median:** The measure of central location, which divides a set of data into two equal parts.

**Median Count (First CD4):** Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

**Median Count (Recent CD4):** Median CD4 count (cells per microliter) of the most recent CD4 test result measured in the specified year, reported through 6/30/2016.

**Median Unsuppressed (Viral Load):** Median unsuppressed viral load (copies per milliliter) among adult/adolescent living HIV cases with a most recent viral load test result measured in the specified year of 200 copies per milliliter or greater, reported through 6/30/2016.

**Number Linked to Care:** Number of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis calculated from Percent Linked to Care.

**Number of Late HIV diagnosis (for HIV diagnoses):** Number of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis calculated from Percent Late HIV Diagnosis.

**Pediatric Reported HIV Diagnoses:** Reported HIV diagnoses, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, with initial HIV diagnosis during the specified year.

**Pediatric Total Living HIV Cases:** Reported HIV diagnosis, age less than 13 years at HIV diagnosis, with or without an AIDS diagnosis, and not reported to have died as of December 31<sup>st</sup> of the specified year.

**Percent Alive by Years after AIDS Diagnosis:** Percent of adult/adolescent reported AIDS diagnoses not reported to have died at 1 year, 2 years, 5 years and 10 years after initial AIDS diagnosis, by year of AIDS diagnosis.

**Percent Late HIV Diagnosis (for AIDS diagnoses):** Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 12 months prior to their initial AIDS diagnosis.

**Percent Late HIV Diagnosis (for HIV diagnoses):** Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 12 months after their initial HIV diagnosis.

**Percent Linked to Care:** Percent of adult/adolescent reported HIV diagnoses with a CD4 or viral load test performed less than or equal to 3 months after their initial HIV diagnosis.

**Percent Suppressed (Viral Load):** Percent of adult/adolescent total living HIV cases with a most recent viral load measured in the specified year of less than 200 copies per milliliter, reported through 6/30/2016.

**Percent with AIDS:** Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis by 12/31/2015.

**Percent with AIDS by Years after HIV Diagnosis:** Percent of adult/adolescent reported HIV diagnoses in the specified year with an initial AIDS diagnosis at 1 year, 2 years, 5 years and 10 years after HIV diagnosis.

**Population:** Population estimate for 7/1/2015.

**Population Age 13+:** Population age 13 years or older, estimate for 7/1/2015.

**Rate:** A proportion used to represent risk for disease within a given population. It is calculated by dividing the number of diagnoses by the number of persons at risk (population estimate).

**Ratio (1 in X):** Number of people for every 1 living HIV case in the population, or 1 living HIV case in every X number of people.

**Recent CD4 Test Result:** The most recent CD4 test result measured in the specified year, reported through 6/30/2016.

**Recent Viral Load Test Result:** The most recent viral load test result measured in the specified year, reported through 6/30/2016.

**Reported AIDS Deaths:** Reported HIV diagnoses with an AIDS diagnosis, reported to have died of any cause during the specified year.

**Reported AIDS Diagnoses:** Reported HIV diagnoses with an initial AIDS diagnosis during the specified year.

**Reported HIV Diagnoses:** Reported HIV diagnoses with an initial HIV diagnosis during the specified year.

**Retained in HIV Care:** HIV Diagnosed with a CD4 test result measured in the specified year, reported through 6/30/2016.

**Total Living HIV Cases:** Reported HIV diagnoses with or without an AIDS diagnosis and not reported to have died as of December 31<sup>st</sup> of the specified year.